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Robert Bosch GmbH
Postfach 10 60 50
70049 Stuttgart

Media und Public Relations
Leitung: Melita Delic
Presse-Forum:
www.bosch-presse.de



Market launch of Bosch eBike ABS Focus on safety – ABS now also available for the eBike

July 2018

PI 10694

- ▶ Bosch eBike Systems is announcing the market launch of ABS
- ▶ The ABS was first mass-produced for cars 40 years ago
- ▶ In a few years, ABS will become the standard on high-end pedelecs
- ▶ More road safety for eBikers

Stuttgart/Reutlingen – From airplanes to cars to motorcycles, and now for eBikes, the anti-lock braking system (ABS) has had a decisive impact on different means of transport and has boosted safety. At the end of 2018, the ABS for pedelecs became commercially available on selected models. With this, Bosch opens a new chapter in the success story of the anti-lock braking system. Forty years have passed since Bosch brought the world's first production-ready ABS for cars into the market, initially as an extra feature in the Mercedes-Benz S-Class. In light of this, Bosch had the term ABS patented. In 1936, the Stuttgart technology company applied for a patent for a "device to prevent a vehicle's wheel brakes from locking". Since its invention, the system has become even smaller, lighter and more powerful. Bosch has been making anti-lock braking systems for motorcycles since 1995, and now for the eBike as well. Claus Fleischer, CEO of Bosch eBike Systems, says there is great potential: "Safety is an important factor in ensuring that this trendsetting form of mobility becomes sustainable on the market. I am convinced that ABS will become standard equipment on high-end pedelecs. In a few years, most city and trekking eBikes will be equipped with ABS."

Safer braking

The ABS has become indispensable in cars. Today, the installation of ABS in new vehicles is even mandatory in Europe. However, it has been proved that the system makes sense for the eBike as well. Bosch accident research has shown that the anti-lock braking system prevented almost one out of four pedelec accidents and reduced the number of accidents involving serious injuries. Incorrect use of brakes often plays a central role in causes of accidents. When braking, many cyclists ignore the front brake which produces a much higher

braking action than the rear brake. The reason for this is fear of crashing. The ABS counteracts this risk since the brakes can be used more efficiently. This reduces the braking distance and the risk of crashing and rollovers.

ABS for bicycles – how does it work?

With front wheel ABS, wheel speed sensors monitor the speed of both wheels. When the front wheel is on the verge of locking, the Bosch eBike ABS controls the brake pressure. The ABS reacts quicker than any rider. In particular, the pedelec can be better controlled and brought to a stop on slippery road conditions and loose, wet ground. Rear wheel lift control is another function of the Bosch eBike ABS. It reduces the chance of the rear wheel lifting off the ground when applying the brake aggressively. This is how it works: Wheel speed sensors detect lifting of the rear wheel through sudden changes in the wheel speed. This results in regulation of the amount of braking force applied to the front wheel. The Bosch eBike ABS briefly reduces the braking force on the front wheel so that the rear wheel quickly regains ground contact. This reduces the likelihood of the eBiker flying over the handlebar.

Perfect interplay

The hydraulic brakes and electronic braking system are precisely matched. Bosch developed the eBike ABS together with its long-standing partner Magura, which provides a special braking system with the Magura CMe ABS. eBike components and the ABS must be in tune with each other as a system as optimally as possible. For this reason, bicycle makers only build the ABS directly on the eBike. Retrofitting is impossible. The power source of the anti-lock braking system is the eBike battery. However, the ABS has no noticeable effect on the battery's range since power is only used when the ABS is actively controlling the braking process. In addition, it is ensured that ABS, light and display also run in backup mode. These safety-relevant functions only switch off when the backup has been used up. The end of backup mode is indicated by an ABS indicator light flashing briefly. The brake then operates as a conventional brake.

Safety comes first

Bosch eBike Systems takes another step towards safe cycling with the ABS and electronic systems. This also includes an on-board computer. Nowadays, the Bosch displays, for example, provide all information like speed, cadence or range at a glance. Whilst operating the eBike, the eBiker keeps both hands on the handlebar and controls the on-board computer easily and comfortably via a separate control unit during the ride. "Safety is of the utmost priority for Bosch. We work continuously on the enhancement of safety products. In principle, many things that are now the standard for cars are also conceivable for eBikes

because fundamental elements, such as power supply and intelligence, are already on board in the form of sensors", says Mr Fleischer.

Facts & figures about the Bosch eBike ABS

Availability:	Available for purchase in Europe starting autumn 2018
Dealer search:	www.bosch-ebike.com/dealers
As of Spring 2018:	Rollout phase with fleet partners Centurion, Cresta, Flyer, Kalkhoff and Riese & Müller
Weight:	approx. 800 grams
Components:	ABS control unit, ABS control light, ABS wheel speed sensors (front and rear), Magura brake CMe ABS with sensor disc
Functions:	Anti-lock braking system on the front wheel Intelligent rear wheel lift control Automatic switching with on-board computer
Benefits:	Optimised riding stability and manoeuvrability Less chance of riders flying over the handlebar More efficient use of brake Greater safety More riding enjoyment
Price:	Prices are determined by bicycle manufacturers
Manufacturer:	E BIKE Advanced, Flyer, KTM, Riese & Müller, ZEG (Zemo) etc.
Retrofitting option:	No, only available as original equipment
Compatibility:	28-inch city and trekking eBikes combined with all Bosch eBike drive systems

Press photos: #1375187, #1375188, #1375189, #1375190

Contact for press enquiries:

Robert Bosch GmbH

Tamara Winograd

Director Marketing and Communications Bosch eBike Systems

Phone +49 (0)7121 35-394 64

Tamara.Winograd@de.bosch.com

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Like other Bosch products, the eBike systems benefit from the Bosch Group's technology and production know-how. From conception and engineering to manufacturing, marketing and after-sales service, Bosch eBike Systems constantly set new standards for the eBike industry. The Bosch Group's experience in the areas of electric motors, sensor technology, displays and lithium-ion batteries ensures that Bosch eBike systems use technology that is invented for life and that eBike users have their fun.

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

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More flow, more options: **The new Performance Line CX package for mountain terrain**

July 2018

PI 10637

- ▶ The perfect combination for eMountain bikers
- ▶ Optimised walk assistance for more powerful support uphill and on rough terrain
- ▶ New software for short cranks offers more ground clearance on trails

Stuttgart/Reutlingen – The Performance Line CX and eMTB mode from Bosch enable eMountain bikes to master challenging mountain passes and ambitious mountain trails more easily. For Model Year 2019, Bosch eBike Systems has two additional new features in store for its powerful drive: The more powerful walk assistance enables sharp increases to be mastered easier, and a new application optimises power transmission - even on eMountain bikes with short cranks.

Improved walk assistance for steep terrain

If neither motor power nor riding technique allows them to keep going, eMountain bikers need walk assistance that offers significant support - especially on steep slopes. The MY2019 update enables eMountain bikes to be manoeuvred even more efficiently and evenly uphill: Thanks to a gradient sensor, the walk assistance automatically adapts to the slope and so the target speed is reached much quicker. The optimised walk assistance also makes it easier to make progress, even if the wheel briefly encounters resistance or an obstacle.

New application for short cranks

Things can sometimes get difficult on technical uphill sections when negotiating rocks and roots. The pedals can ground which could lead to a fall. That's why more and more riders choose shorter cranks and thus more ground clearance. These are also ideal for smaller riders. However, short cranks change the power transmission of the eMountain bike and thus the maximum support from the motor, also influencing the motor characteristics in eMTB mode. The new software has allowed Bosch eBike Systems to adapt the progression curve in eMTB mode and increase support in 'Tour' mode. This ensures maximum power on uphill

sections. The new software for cranks of 165 millimetres and shorter can be installed by dealers from MY2019 onwards.

Both eMTB innovations will be introduced for the 2019 Model Year and can be retrofitted for all eBike models with the Performance Line CX from the 2016 model year onwards.

Press photos: #1361898, #1361899

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Tamara Winograd

Director Marketing and Communications Bosch eBike Systems

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Tamara.Winograd@de.bosch.com

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July 2018

PI 10695

Fully charged battery in three hours The fastest eBike charger from Bosch

- ▶ Bosch eBike Systems is expanding its range of chargers
- ▶ Six out of ten prospective eBike customers think that charging speed is important
- ▶ Time factor: Charge quicker, eBike longer

Stuttgart/Reutlingen – People who make long, frequent journeys with their eBike need a suitable charger. For model year 2019, Bosch eBike Systems is now introducing the Fast Charger, which at 6 A charging current, is the fastest charger from any provider on the market. With this new development, it is possible to fully charge a Bosch PowerPack 500 in three hours.

Charging speed is an important purchasing criterion

Quick charging times are of prime importance for eBikers: 61% of prospective eBike customers in the Bosch eBike market study indicated that charging speed is important or very important to them.¹ Bosch eBike Systems acknowledges this fact with the development of the Fast Charger. The Fast Charger needs about 1.2 hours to charge a PowerPack 500 or a PowerTube 500 halfway and three hours to charge them fully. The fast "refuelling times" allow eBikers to experience riding enjoyment more intensively – with longer rides and shorter stopovers. For example, it takes a midday break of around an hour to recharge the battery by 40 percent.

Fast charging times are also an important prerequisite for a trendsetting infrastructure. "With the Fast Charger, hire stations in cities, districts and tourist destinations can now offer an optimal service to eBikers. This allows Bosch not only to meet individual needs but also to contribute to the establishment of an eBike-friendly infrastructure," says Claus Fleischer, CEO of Bosch eBike Systems.

Weighing only 20% more and adopting a size that is only slightly bigger than the Standard Charger, the Fast Charger is compatible with all Bosch product lines. The Fast Charger is available in Europe, Australia and New Zealand. The

¹ Multiple answers

charger can often be selected when purchasing an eBike. The Fast Charger will be available to specialist retailers as of autumn 2018.

Bosch eBike battery chargers

With the Fast Charger, Bosch eBike Systems now has an expanded portfolio of three chargers which are optimised for a variety of applications. While the Standard Charger is mostly used in stationary applications, the Compact Charger, weighing less than 600 grams and with 40% less volume in comparison, fits in many saddle bags and is therefore the perfect tool to take with you when riding. In addition, the Compact Charger works at all supply voltages (110 to 230 V). Both the Standard and the Compact Charger are compatible with all Bosch product lines.

Five tips for charging eBike batteries

1. How often and how long should I charge a battery?

Bosch batteries with lithium-ion cells can be charged quickly at any time irrespective of their charge level. The integrated Bosch battery management system in conjunction with a Bosch charger protects the battery from overload. Interrupting the charging process does not harm the battery. Even after 500 full charges, about 70% of the original battery capacity is still available.

2. Can any charger be used for any battery?

Any of the three chargers can be used for any Bosch eBike battery. In principle, the following applies: Bosch eBike batteries may only be charged with original Bosch chargers. Otherwise, irreparable damage may appear and warranty or warranty claims are forfeited.

3. How long does it take to charge a battery?

The charging time depends on the capacity of the battery: With the Fast Charger, the PowerPack 500 needs about 1.2 hours for half a charge, while the DualBattery 1000 needs about 2.4 hours. A completely empty PowerPack 500 is fully charged in three hours, whereas the Dualbattery 1000 needs six hours to be fully charged.

4. What is the perfect charge status?

The "perfect charge status" in case of long-term storage is between approximately 30% and 60%, or two to three illuminated diodes on the battery display.

5. At what temperature should I charge a battery?

To charge an eBike battery under optimal conditions, it is recommended that charging be done at room temperature and in a dry environment.

Press photos: #1375200, #1375202

Contact for press enquiries:

Robert Bosch GmbH

Tamara Winograd

Director Marketing and Communications Bosch eBike Systems

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Compact colour display for sporty eBikers **Kiox: the new on-board computer from Bosch**

July 2018

PI10696

- ▶ Bosch presents an on-board computer for sports usage
- ▶ Colour display features a clean appearance and intuitive operation
- ▶ Bluetooth connection with a heart rate monitor ensures the best possible training regime

Stuttgart/Reutlingen – For 2019 models, Bosch eBike Systems introduces Kiox, an on-board computer specially developed for the needs of ambitious riders. The small and robust colour display is controlled by a separate control unit on the handlebar and provides the eBiker with data on speed, personal performance and cadence or battery charge status. In addition, the on-board computer can be combined with an optional heart rate monitor, allowing eBikers to train in the best possible way. More connectivity functions will follow.

Focussing on the essentials

"Athletic eBikers prefer an uncluttered handlebar so that they can concentrate on the essentials: the tour, the flow, the eBiking. We're starting here with our new on-board computer Kiox", says Claus Fleischer, Managing Director of Bosch eBike Systems. Bicycle manufacturers can choose to install the compact and handy display with the Bosch mount or integrate it practically into the handlebar stem by means of custom solutions. This leads to different design variants as well as a minimalistic eBike look. Kiox impresses with its clean appearance, vibrant colour scheme and clearly structured user interface. eBikers can quickly check relevant data such as speed, support mode, mileage and battery charge level.

Optimised for demanding use

Another highlight: the display lighting. It automatically adapts to the surroundings. The 1.9" high-resolution colour display is perfectly readable even in direct sunlight and in the dark. The central position on the handlebar stem provides an ideal reading angle. Robust gorilla glass protects the display against scratching and other damage. The magnetic holder provides a secure grip and allows easy re-

removal and attachment of the on-board computer. The integrated display battery provides up to 20 minutes of power in the off-board mode and displays a summary of the day's activities. The on-board computer is controlled by the separate Remote Compact control unit on the handlebar. The clearly palpable pressure from the buttons gives the eBiker clear feedback – easy, safe, intuitive.

The smart on-board computer for athletes

Kiox supports eBikers wishing to improve their fitness. The on-board computer notifies eBikers whether they are going above or below the average speed, motivating them to perform better. With an optimal Bluetooth-connected heart rate monitor, Kiox users can check their current pulse range at all times, enabling them to get the most out of their training. The Bluetooth low-energy interface also allows users to download Kiox software updates to the on-board computer without requiring a cable connection. The future will see even further functions connecting eBikers to the new on-board computer.

Press photo: #1375210, #1375207, #1375208, #1375209

Contact for press enquiries:

Robert Bosch GmbH

Tamara Winograd

Director Marketing and Communications Bosch eBike Systems

Phone +49 (0)7121 35-394 64

Tamara.Winograd@de.bosch.com

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July 2018

PI 10693

A portrait of Bosch eBike Systems From start-up to global player

- ▶ Summary: The success story from 2009 to today
- ▶ Perfect interplay: The Bosch eBike system
- ▶ Short profile: Claus Fleischer, CEO of Bosch eBike Systems

Summary: The success story from 2009 to today

Bosch eBike Systems offers a comprehensive portfolio for pedelecs – everything from highly efficient drive units containing the motor and gear set to premium-quality batteries and intuitively operated, smart on-board and bicycle computers. This product range and division, established in 2009 as a start-up within the Bosch Group, were able to draw on and pool some essential know-how from the Group: the rechargeable battery technology from wireless power tools as well as electric motors, electronics and sensors from the automotive industry.

Today, Bosch eBike Systems counts among the leading manufacturers of eBike drive systems within the premium segment. Over 70 renowned bike brands worldwide trust "epowered by Bosch" components, which are meanwhile providing eBike riding enjoyment worldwide. Since 2014, the company has been strengthening its presence with its own branch offices in the North American market and in Asia. Offering innovative products and solutions, Bosch eBike Systems is shaping the bicycle market where networking, too, is playing an increasingly decisive role. The acquisition of COBI.Bike GmbH in 2017 marked a major milestone, expanding Bosch eBike Systems' portfolio in the field of connected products and services.

Perfect interplay: The Bosch eBike system

The driving force behind the successful development of this product range and division is our proven, sophisticated eBike drive system. All components from Bosch eBike Systems fit ideally together and function as a whole in perfect coordination, creating a synergised ensemble that maximises efficiency, convenience, comfort and riding pleasure.

The drive unit – the heart of the system

The drive units from Bosch eBike Systems lend a particularly natural riding sensation. Three sensors measure the rider's pedalling force, cadence and speed over 1,000 times per second. This facilitates optimum interplay between rider and eBike. With our drive series Active Line, Active Line Plus, Performance Line, and Performance Line CX, Bosch offers eBikers the ideal motor for every riding situation – from relaxed cruising through cityscapes to athletic application on off-road tracks.

Rechargeable batteries – the energy source for pedelecs

Whether for long-distance touring or the daily ride to work – Bosch has the fitting battery to meet any requirements. The PowerPacks 300, 400 and 500 are available in frame or rack variants, while the PowerTube 500 can be form-fit integrated by your eBike manufacturer into the bike frame. By combining two rechargeable batteries, DualBattery permits an energy content of up to 1,000 watt hours. All lithium-ion batteries from Bosch are low-weight in design and feature high energy density and long service life. The intelligent Battery Management System (BMS) from Bosch protects your rechargeable batteries against excessively high temperatures, overcharging and deep discharge.

The on-board computer – intelligence on your handlebars

The various Bosch on-board computers offer eBikers precisely the information and support that they need. This starts by clearly displaying the key riding data, and ranges through to bike-optimized route calculation custom-tailored to your eBike. While the information presented on the analogue Purion and Intuvia displays is minimised to the essentials, Nyon and Kiox open the door to the "colourful" online world – so that connected eBikers have now become reality. With COBI.Bike, Bosch eBike Systems offers customers the option of choosing between on-board computers and smartphone-based solutions.

Short profile: Claus Fleischer

Claus Fleischer has been CEO of Bosch eBike Systems since July 2012. The trained mechanical engineer has over twenty years of experience at the Bosch Group in Germany and abroad. For three years, from the start of 2007 until the end of 2009, he headed development work on brake systems at Bosch in Farmington Hills, Michigan in the United States. He then served at company headquarters at the Stuttgart-Schillerhöhe location as assistant to the Chairman of the Board of Management of Bosch Group, responsible for technical affairs for corporate planning. Fleischer is an enthusiastic mountain biker and road racing rider, and is passionate about alpine sports.

Press photos: #1375182, #1375183

Contact for press enquiries:

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Tamara Winograd

Director Marketing and Communications Bosch eBike Systems

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