

Products 2019



BOSCH

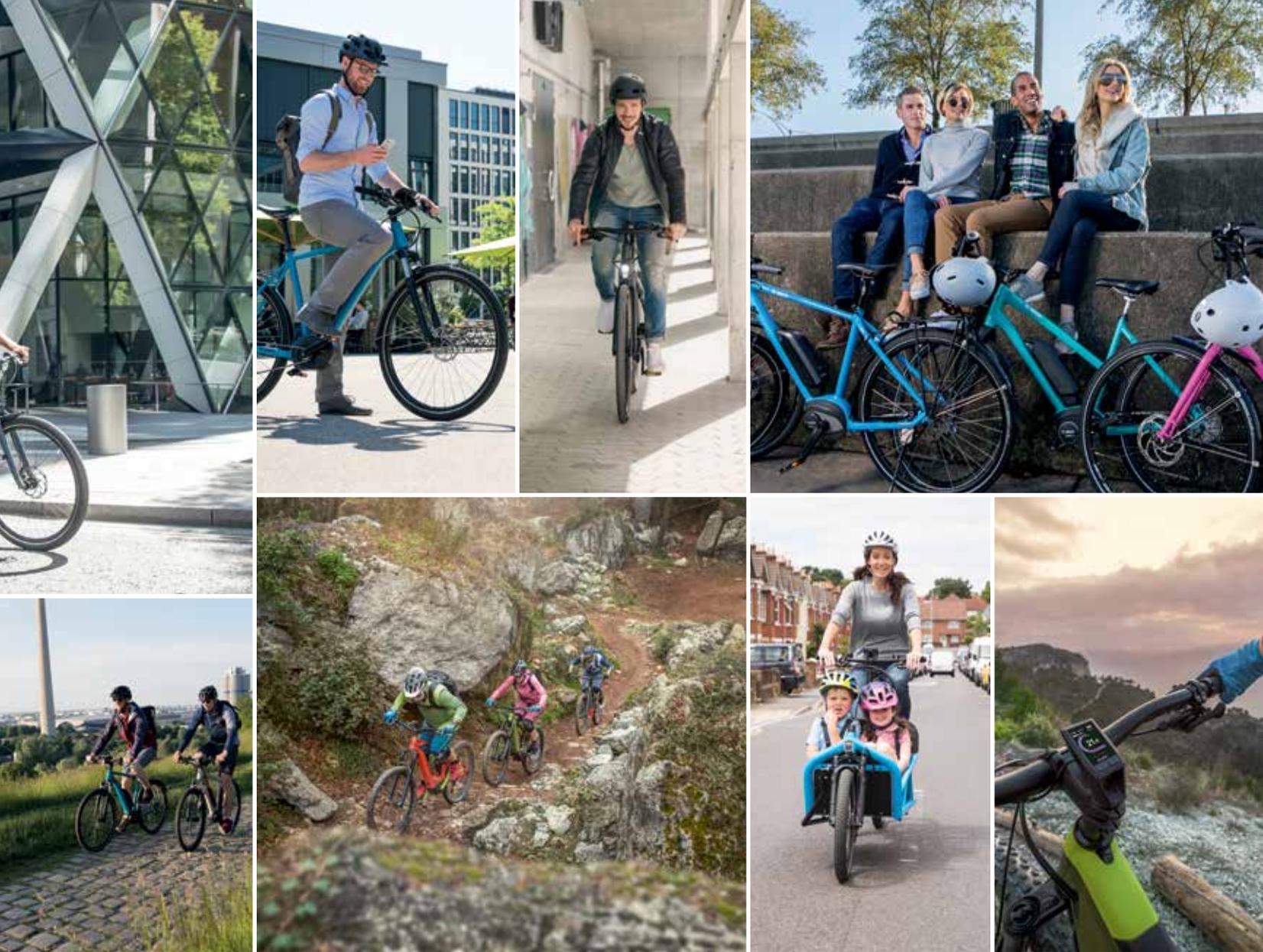
Invented for life

**EVERY MOVEMENT
NEEDS SOMEONE
TO SET THE PACE**

FEEL THE FLOW

Bosch eBike Systems | EN
bosch-ebike.com/us





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IN THE HERE AND NOW AND PART OF THE FUTURE

#FeelTheFlow

The eBike – a new way of thinking, living and travelling. eBiking provides a unique lifestyle feeling. It's all about pure riding enjoyment and the fun of being active. You enjoy the moment, you're in the here and now; you're in the flow. Become part of this movement. Never stop. Feel the Flow.



VISIT THE WEBSITE
bosch-ebike.com/feeltheflow

“Everything just seems to work when you’re in the flow. You don’t have to think about which movement you need to make. When you’re eBiking you can determine everything perfectly yourself. That’s why I find it so cool.”

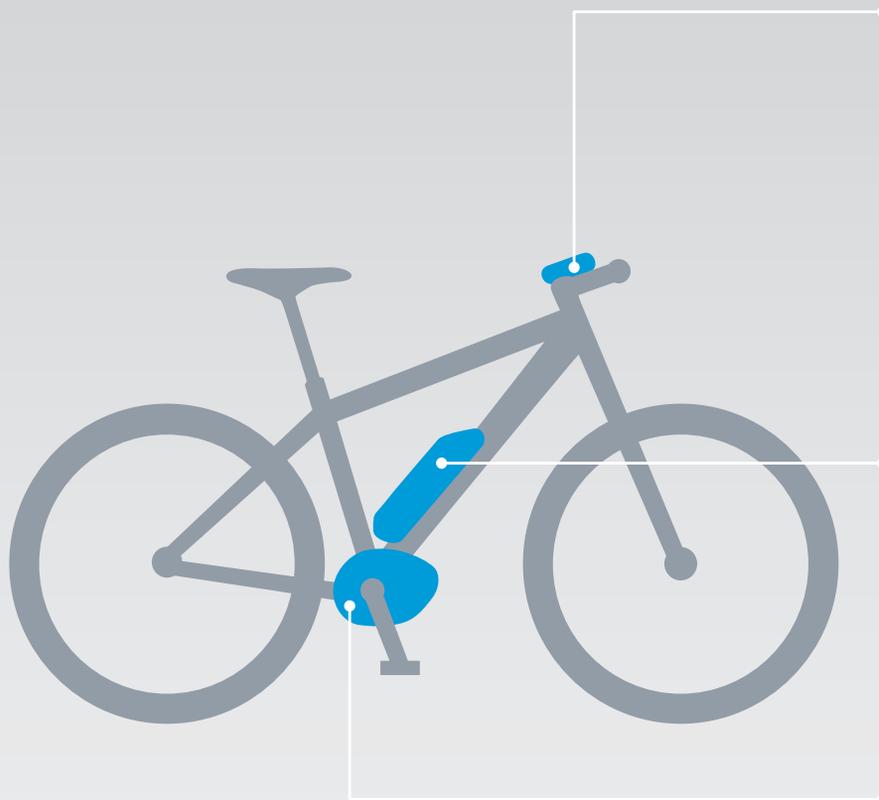
Felix Neureuther
Professional Skier



Bosch eBike Systems

Overview

On-board computer, drive unit and rechargeable batteries: The individual components have been developed so that they are perfectly matched and work together in harmony. This results in maximum efficiency and comfort – for a unique riding sensation. Feel the Flow.



On-board computers

Get exactly the information and support as you need. Purion displays all the basic information at the click of a thumb. Intuvia guarantees easy and intuitive control of your eBike and gives you a view of all riding data at all times. The new compact and robust Kiox provides ambitious sporty riders the perfect the off-road companion.



Batteries

Whether for relaxed cruising, your daily commute to work or ultimate Uphill Flow – we offer you exactly the right battery for your requirements. PowerTube and PowerPack impress with their high energy density, great mileage, long service life, light weight and they are all easy to handle. The Bosch PowerTube 500 allows you to travel with style.



Drive Units

The drive unit of the Bosch eBike system is available in the Active Line, Active Line Plus, Performance Line Cruise, Performance Line Speed and Performance Line CX. Whether in the flow through the city, on trails or alpine terrain: With proper support, each ride becomes your very own personal, inspirational eBike moment.

Three-Class eBike Law

More and more states are adopting the “Three-Class” Law. This model legislation defines three common classes of eBikes (based on speed, wattage, and operation), and allows states to decide which types of bicycle infrastructure each class can use (typically Class 1 and Class 2 eBikes are allowed wherever traditional bikes are allowed). It also requires eBike makers to place a highly visible sticker on the frame to indicate an eBike’s Class.

The three classes are defined as follows:

- Class 1:** eBikes that are pedal-assist only, with no throttle, and have a maximum assisted speed of 20 mph.
- Class 2:** eBikes that also have a maximum speed of 20 mph, but are throttle-assisted.
- Class 3:** eBikes that are pedal-assist only, with no throttle, and a maximum assisted speed of 28 mph.

All classes limit the motor’s power to 1 horsepower (750W). eBikes powered by Bosch are either Class 1 or Class 3.

On-board computers



Purion

The compact on-board computer is a display and control unit in one – perfectly suited for anyone who wants to concentrate on the key information. The display provides a clear overview of the charging status, speed, riding mode, range, trip distance and total distance.



Intuvia

Intuvia offers optimized operating comfort. Handling is self-explanatory and the display is clearly visible, even in sunlight. This gives you a view of all riding data at all times. Intuvia reliably informs you about speed, distance, riding time and the current range. The separate control unit enables the Intuvia to be operated using your thumb.

Drive Units



reddot award 2017
winner



Active Line

With up to 40 Nm, the quiet drive unit provides just the right support for relaxed riding enjoyment up to a maximum of 20 mph (32 km/h). With minimal pedal resistance, the rider reaches the destination even faster. Weighing only < 6.3 lbs (2.9kg), the drive unit provides low overall weight and is also available with a backpedal function.



reddot award 2017
winner



Active Line Plus

The power of the Active Plus drive unit is delivered smoothly to achieve a natural riding sensation. Even crossing the 20 mph (32 km/h) boundary is possible with minimal pedal resistance. The particularly quiet motor supports the rider with up to 50 Nm and is also available with a backpedal function.



Performance Line Cruise/Speed

The Performance Line delivers the right amount of support at the right moment, guaranteeing even more riding enjoyment. The finely balanced system facilitates top performance and a sporty riding style – up to 20 mph (32 km/h) with Performance Cruise or up to 28 mph (45 km/h) with Performance Speed.



NEW



Kiox

The perfect training partner for ambitious riders: robust, small and compact, but in a clear, stylish design. You can keep track of the battery charge level, as well as your speed, heart rate and performance. The magnetic holder allows for speedy installation, as well as a firm hold. The separate Remote Compact with clear tactile feedback also ensures comfortable and ergonomic operation of the on-board computer.



Performance Line CX

Setting the standard for sporty terrain and on the mountain. With a maximum torque of 75 Nm, the Performance Line CX allows sporty, dynamic acceleration, even over alpine terrain. The drive for the ultimate Uphill Flow.

Batteries



PowerPack 400/500

Whatever you are planning – Bosch has just the right battery for your needs. The Bosch PowerPacks 400 and 500 are available as frame or rack batteries. The lightweight lithium-ion batteries are easy to install and remove. The PowerPack can also be charged on the eBike via the charging socket.



PowerTube 500

With the PowerTube 500, Bosch offers a battery that fits perfectly inside the frame and that can be installed horizontally or vertically. A minimalist design opens up new possibilities for eBike manufacturers during integration into the frame. The battery is concealed and perfectly protected by the frame. The battery conveniently pops approx. 2 cm out of the frame when unlocked, making it easier to take hold of.



NEW

DualBattery

Ideal for tour bikers, long-distance commuters and cargo bikers. The combination of two Bosch batteries delivers up to 1,000 Watt hours. The eBike manufacturer can combine the PowerPack 400 and 500 or PowerTube 500.



Chargers

▼ Standard Charger



Compact Charger ▲

Compact and Standard Chargers

Bosch chargers are handy, lightweight and robust. The housings are designed without vents to protect the chargers from dirt and grime. Wherever your journey may take you: With the 2A Compact Charger and 4A Standard Charger, Bosch has developed two models that will charge your eBike quickly and reliably.

New Features 2019



Kiox

The new, stylish Kiox on-board computer has been specially developed for the needs of ambitious riders: robust, small and compact, it's the perfect companion – both off-road and as a training partner. The Kiox allows you to keep track of all the important information, such as your speed, heart rate and performance, while the clear tactile feedback of the separate Remote Compact helps you keep control of the handlebars and terrain.



Performance Line CX

Two optimizations:

- The even more powerful walk assistance for the Performance Line CX offers reliable support if you encounter obstacles when riding. Steep and unpaved tracks are thus easy to master at walking speed thanks to the optimized walk assistance.
- Whether you have long or short cranks, Bosch provides the correct support. Short cranks give you extra ground clearance for eMountain biking. Your specialist dealer will be able to make the relevant adjustment.



Product Finder

Which is the best Bosch eBike system for me?

1. Riding style

What riding style do you normally adopt and what type of terrain do you usually ride your eBike over?

2. Product line

Find the product line that best suits your needs.



- ▶ Relaxed riding or commuting on surfaced roads or cycle paths as part of everyday life.



- ▶ Comfortable riding or commuting, primarily on surfaced roads and cycle paths with moderate inclines.



- ▶ Sporty riding and longer distances, predominantly on paved paths and roads.



- ▶ Very sporty riding in challenging terrain on unpaved roads.



Active Line

40 Nm



Active Line Plus

50 Nm



Performance Line Cruise

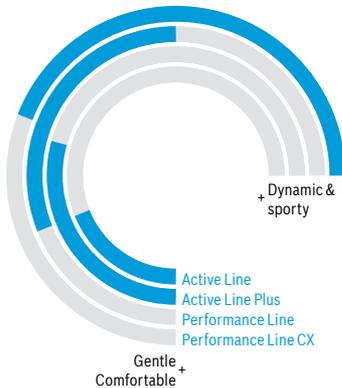
63 Nm

3. On-board computers

Choose the right display for you, depending on the functions you require.

The riding sensation

Bosch offers different product lines to meet the individual needs of riders. The result is a unique riding sensation.



Performance Line Speed

63 Nm



Performance Line CX

75 Nm



5 Riding modes	●	●	●
Shift recommendation	○	●	○
Walk assistance	●	●	●
Transflective Display	○	○	●
Splash-proof	●	●	●
Off-board mode	○	●	●
USB charging option	○	●	●
Operated from handlebar	●	●	●
Connected	○	○	●
Fitness function	○	○	●
Compatible with eShift	○	●	●
Compatible with DualBattery	●	●	●

*planned

Additional features



▶ eMTB mode

The eMTB mode replaces the previous Sport mode of the Performance Line CX and switches between the Tour and Turbo riding modes for a natural riding sensation and maximum performance on the trail.



▶ eShift

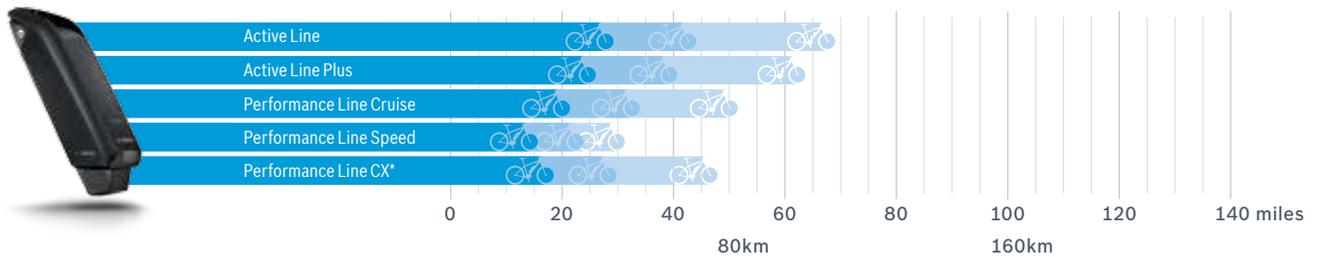
The integrated electronic gear shifting solution for anyone who wishes to focus on the essentials during eBiking.

4. Batteries and range

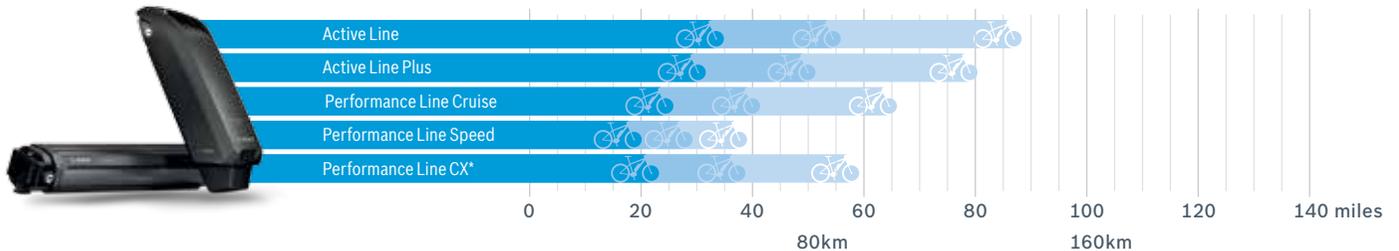
The charts below provide an overview of range in relation to a variety of conditions with regard to the Bosch rechargeable batteries:

(The values below show the average when combining all four riding modes and various conditions.)

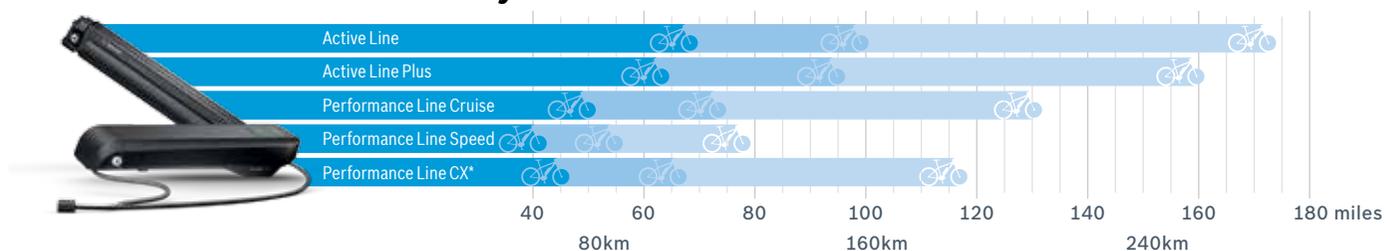
PowerPack 400



PowerTube 500 und PowerPack 500



DualBattery 1000 Based on two Bosch batteries of 500 Wh.



Range

The range of Bosch rechargeable batteries depends on numerous different factors. Your range is influenced by you as a rider and, for example, your chosen support mode, as well as the drive or battery installed in your eBike. Environmental factors such as temperature, wind conditions and riding surface also play a key role in how far you can get. You can use our Range Assistant to calculate a typical range under various conditions. The online tool will show you important information on battery range in a visually appealing way.

Range Assistant



Rider

Total weight

Add together your body weight + bike weight + luggage weight (backpack, mobile phone, wallet, etc.) and enter the result in kilograms.

Cadence

Enter roughly how many times you turn the crank on average per minute.



eBike

Cycle type and position

Choose your bike and the corresponding position.

Tire tread

What tires are fitted on your bike?

The typical tire pressure is chosen to correspond to the area of application and the tire type.

Drive

Which drive is installed on your bike?

Please note: In the case of Performance Line Speed, you can select a speed of up to 28 mph (45 km/h).

Battery

Which rechargeable battery is installed in your bike?

If you have a DualBattery, please activate the DualBattery option. DualBattery combines any two Bosch rechargeable batteries

Gears

What gearing is installed on your eBike?



Environment

Terrain type

Uphill, hilly or flat as a pancake?
Can you describe your ride?

Surface

Gravel or good asphalt – what's your chosen surface?

Starting frequency

Stop and go:
How often do you move off from a standing start?

Level 1 = rarely,
Level 5 = frequently

Wind conditions

Calm or stormy?

What wind conditions do you expect?

Difficult conditions**

Favorable conditions**

Ideal conditions**/**

* eMTB mode was not considered when calculating these ranges.

** The ranges are typical values for new batteries, which may decrease if one of the conditions listed deteriorates.

*** No additional connected electrical components, e.g. light.

Calculate your approximate range using the Range Assistant at
bosch-ebike.com/us/service/range-assistant



Active Line 

THAT FEELING OF DISCOVERING THE CITY ALL OVER AGAIN

FEEL THE FLOW

Compact, lightweight design and smooth delivery of acceleration: the Active Line is the drive for anyone who wants an elegant look, a relaxed urban cycling experience and quiet cruising. The drive unit fits perfectly into the bicycle frame, and supports the eBiker with speeds up to 20 mph (32 km/h). Pure riding enjoyment and absolute comfort. Experience the flow with the Active Line.

#streetflow





Active Line

At a glance



Smart support

Experience a relaxed and safe riding sensation with smooth support from the quiet Active Line. It provides just the right support, up to 40 Nm, for relaxed riding enjoyment up to a maximum of 20 mph (32 km/h). The pedal resistance is minimal even above this speed or when switched off. Weighing only 6.4 lbs (2.9 kg), the drive unit is the smallest, lightest and most elegant system in the Bosch eBike product family. Benefit from riding enjoyment and maximum comfort.

- ▶ Moderate power for relaxed everyday rides and short excursions.
- ▶ An elegant Drive Unit enabling new flexibility for everyday and occasional riders.

Active Line Highlights



Maximum torque

A maximum torque of up to 40 Nm ensures gentle supporting acceleration.



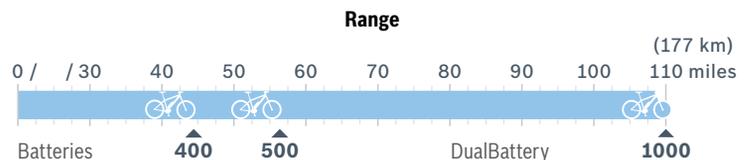
Maximum drive

Gentle support, perfect for city trips.



Drive unit

Moderate support for greater mobility in everyday use up to a maximum of 20 mph (32 km/h).



Average of combined use of all four modes and favorable conditions.

The facts

- ▶ **Quiet cruising:** A lightweight, quiet Bosch motor provides even more riding enjoyment without annoying extraneous noises.
- ▶ **Carefree cruising:** The innovative drive concept allows a very light drive unit, weighing only 6.3 lbs (2.9 kg).
- ▶ **Unique riding experience:** Experience smooth acceleration with minimum pedal resistance when switched off or at over 20 mph (32 km/h).
- ▶ **Clean eBike look:** The Active drive unit is 25 % smaller than before and, thanks to its compact size, allows improved integration within the bicycle frame.
- ▶ **Easy handling:** due to the low weight and the low center of gravity.
- ▶ **Relaxation on tour:** The intelligent 3-sensor concept of the drive unit takes more than 1,000 measurements per second to ensure a smooth power characteristic.
- ▶ **Award-winning design:** Bosch sets new standards with flowing shapes and smooth lines. The Active Line has already won the Red Dot Design Award.



reddot award 2017
winner

Active Line + Purion + PowerPack 400

Elegant and smart support



Relaxation on all trips: The Active Line delivers moderate support while providing a particularly enjoyable riding sensation. It is the smooth, smart drive for anyone who enjoys riding on paved roads or bike trails and wants to have carefree everyday excursions. The PowerPack 400 supplies the system with energy. The low weight of the drive unit makes your eBike lighter overall. The Purion on-board computer gives you all the essential information at a click of your thumb. Both hands remain safely on the handlebar.





Active Line Plus  |  

LEAVE EVERYDAY LIFE BEHIND

FEEL THE FLOW

Experiences for explorers: The Active Line Plus accompanies you on your journey through the city and beyond. The <7.1 lbs (3.2 kg) drive unit is particularly quiet, small and efficient and, offering speeds up to 20 mph (32 km/h), is the right drive for exploration and adventure. This stable, silent Bosch motor can be relied on for great riding enjoyment. Experience the flow of the Active Line Plus.

#FeelTheFlow





Active Line Plus

At a glance



The drive unit for explorers

Look forward to new places and their stories – and enjoy the allure of the unknown. The especially quiet Active Line Plus eBike drive has been designed for little adventures like this. Without disturbing extraneous noises, you gently cross the 20 mph (32 km/h) boundary with minimal pedal resistance. Riders can enjoy powerful support of 50 Nm on voyages of discovery after work and on weekends. Three sensors that record your riding data more than 1,000 times per second are responsible for the smooth riding sensation. This, combined with the lighter weight and reduced size, means the drive unit can be integrated perfectly into the bike frame so that you get even more enjoyment from eBiking.

- ▶ Optimal support for an excursion or tours, including beyond city limits.
- ▶ This quiet, small yet powerful drive unit offers a plus in riding enjoyment, as well as improved handling.

Active Line Plus Highlights



Maximum torque

A maximum torque of up to 50 Nm ensures smooth, gentle acceleration.



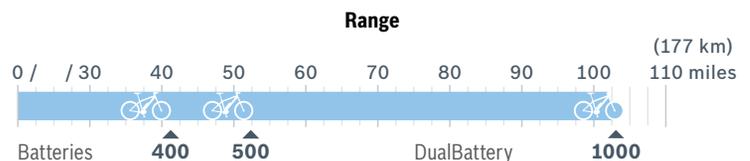
Maximum drive

Sufficient support, perfect for city trips or relaxed tours.



Drive unit

The right amount of support for greater mobility in everyday use up to a maximum of 20 mph (32 km/h).



Average of combined use of all four modes and favorable conditions.

The facts

- ▶ Carefree riding experience: The innovative drive concept impresses with its very light weight of only <7.1 lbs (3.2 kg).
- ▶ Pure riding enjoyment: The quiet, reliable Bosch motor provides gentle support on all tours.
- ▶ Agile riding sensation: The drive unit provides gentle and reliable support for the rider through smoothly balanced acceleration.
- ▶ Unique riding experience: Experience smooth acceleration with minimum pedal resistance when switched off or at over 20 mph (32 km/h).
- ▶ Outstanding support: The intelligent 3-sensor concept of the drive unit takes more than 1,000 measurements per second to ensure a smooth power characteristic.
- ▶ Perfect integration: The reduced size and lighter weight mean that the mid-drive motor can be integrated perfectly into the bike frame.
- ▶ Reduced wear: The gear shift detection feature on the Active Line Plus protects the components and ensures easy and smooth gearshifts.
- ▶ Award-winning design: Bosch sets new standards with flowing forms and smooth lines. The Active Line Plus has already won the Red Dot Design Award.



reddot award 2017
winner

Active Line Plus + Intuvia + PowerTube 500

The perfect combination
for everyday use



Do you actively organise your leisure time, love discovering new places and exploring the unknown? Then the Active Line Plus is your perfect companion. The small, agile and elegant drive unit provides support up to 20 mph (32 km/h). Stylishly incorporated in the bicycle frame, the PowerTube 500 provides the power you need – as well as integrating stylishly into the bicycle frame. This creates a timeless look with long range for any trip of discovery. Intuvia offers additional ease of use: the display supplies all riding data at a glance and is clearly visible, even under sunlight. The separate, ergonomically positioned control unit allows you to keep your hands on the handlebar at all times.



Active Line Plus + Intuvia + PowerPack 400

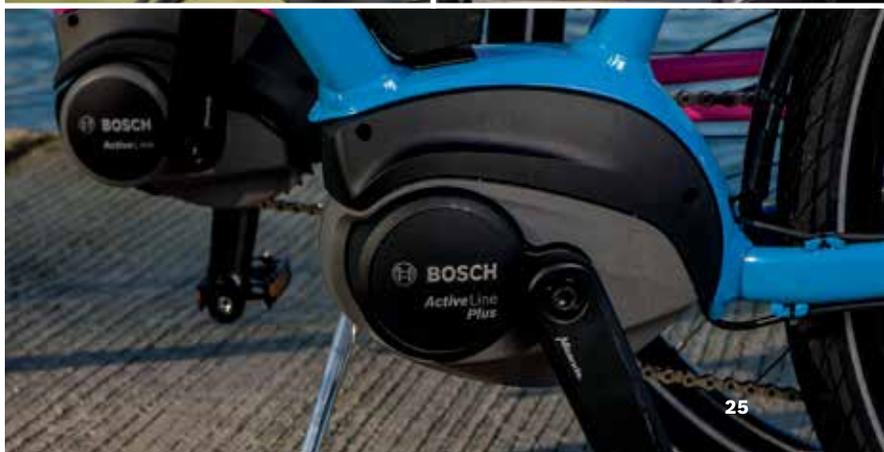
Convenient and durable,
perfect for long, easy rides



Visiting friends, enjoying nature and fresh air or running errands – the Active Line Plus supports you on all your trips. A smoothly balanced sensor system that records your riding data more than 1,000 times per second is responsible for the comfortable riding sensation. PowerPack 400 delivers the energy required. The light lithium-ion battery is easy to install or remove or can simply be charged using the charging socket on the eBike. With Intuvia, the rider enjoys optimized operating comfort on all trips. The handling is intuitive and the display can be operated conveniently using a separate unit when riding. Benefit from a comfortable combination that enriches your trips.



Active
Line Plus



Performance Line  | 

SPORTY RIDING AND GET THERE RELAXED

FEEL THE FLOW

Surprise your inner sportsperson: The Performance Line is made for ambitious riders – whether for trekking, all-mountain riding or commuting. The finely balanced system always delivers the necessary support for more riding enjoyment in the saddle at just the right moment: up to 20 mph (32 km/h) with the Drive Unit Performance Cruise or up to 28 mph (45km/h) with the Speed variant. Rely on the desired power at the right moment. Experience the flow of the Performance Line.

#FeelTheFlow





Performance Line

At a glance



Sporty riding

The Performance Line eBikes have character and deliver the appropriate amount of support at the right moment, guaranteeing even more riding enjoyment. The finely balanced system facilitates top performance and a sporty riding style – up to 20 mph (32 km/h) with the Performance Cruise drive unit or up to 28 mph (45 km/h) with the Speed unit.

- ▶ Sufficient power for the city, off-road and on the mountain.
- ▶ A powerful, dynamic drive unit for commuters, for example.

Performance Line Highlights



Maximum torque

Sporty dynamic support of up to 63 Nm provides more power during start-up, aiding powerful riding in any situation.



Maximum drive

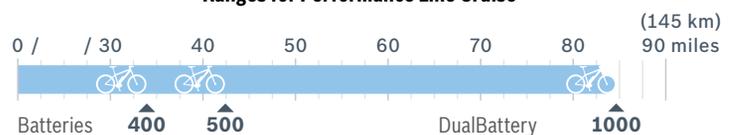
The drive unit provides strong support at low cadences, delivering more power during hill starts, for example.



Drive unit

Sporty dynamic support in two options: Cruise 20 mph (32 km/h) and Speed 28 mph (45 km/h).

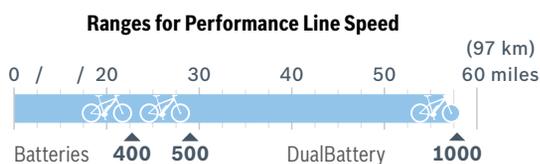
Ranges for Performance Line Cruise



Average of combined use of all four modes and favorable conditions.

The facts

- ▶ Off to a good start: With a torque of up to 63 Nm, full support is available even at a low cadence, ensuring powerful riding behavior, especially when starting.
- ▶ 3-sensor concept: Three sensors measure the torque, speed and acceleration more than 1,000 times per second, ensuring perfect interaction between rider and eBike.
- ▶ Durable: Precise motor control and fast processing of the sensor signals for minimal noise and vibration. The safe chain run prevents chain derailment and incorrect loading and reduces wear.
- ▶ The right support in every situation: The five riding modes available on the Performance Line offer sporty dynamic support.
- ▶ Innovative gear shifting concepts: With the integrated eShift solutions from enviolo, Rohloff and Shimano you can shift electronically with the Performance Line, with the automatic hub gear system from enviolo providing support up to 28 mph (45 km/h).
- ▶ The Performance Line Speed variant provides support with speeds up to 28 mph (45 km/h) to allow commuters to arrive at their destination faster.
- ▶ The powerful, sturdy drive concept is compatible with hub gear or derailleur systems and ensures maximum riding enjoyment in every terrain.



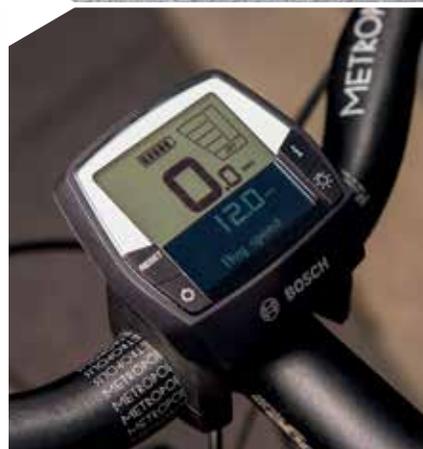
 Technical details on page 64

Performance Line + Intuvia + DualBattery 1000

Safely extending your range



The Performance Line is our powerful all-rounder for ambitious riders. Whether you're commuting for work, on the way to kindergarten with the kids or out shopping with the eCargo bike, the sporty drive delivers the right amount of support at the right moment. The DualBattery 1000 provides the power you need. The battery delivers twice the range of the PowerPack 500. Together with the intuitively operated Intuvia on-board computer, the Performance Line will take you to any destination.



Performance Line + Intuvia PowerPack 400

More riding enjoyment in
any situation



A meeting in the city in the morning, lunch in the park and a training session with friends in the evening – the Performance Line transforms normal days into exceptional experiences. Bringing a new and exciting freedom to your life, the PowerPack 400 provides the power you need. The impressive dynamic drive provides powerful support both on flat roadways and up steep inclines.



Performance
Line



WATCH THE VIDEO AT
[bosch-ebike.com/munich](https://www.bosch-ebike.com/munich)

Performance Line CX 

BE AT ONE WITH THE TRAIL

FEEL THE FLOW

Total commitment: With a maximum torque of 75 Nm, the Performance Line CX is the ideal drive for ambitious sports enthusiasts and demanding eBikers. eMTB mode offers riders up to 300% of perfectly delivered support, incredible dynamism and unique grip. Improved start-up behavior guarantees optimal support in all terrains and on any trail. Depending on the pedal pressure, the progressive motor support automatically adapts to the individual riding style. This means the rider can concentrate on the essentials, focus on the trail and maximise their riding enjoyment. The ultimate riding experience is guaranteed. Experience the flow of the Performance Line CX.

#uphillflow





Performance Line CX

At a glance



- ▶ Our most powerful drive for your Uphill Flow.
- ▶ Greater riding enjoyment on the flat and when riding uphill.

Performance Line CX Highlights



Max. torque

With a torque of up to 75 Nm. For sporty acceleration even in alpine terrain, without changing gear.



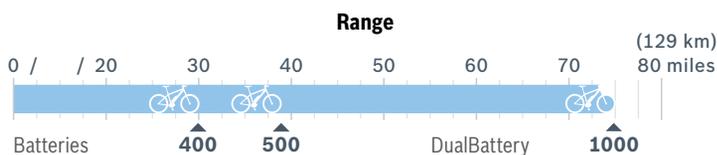
Max. drive

Lasting support for riders enables powerful drive, fast sprints and a very sporty riding style.



Drive unit

Support up to 20mph (32 km/h). Does not overheat even on long mountain trips.



Average of combined use of all four modes and favorable conditions.

The superlative among drive units

One step on the pedal and the power kicks in. Achieve a perfect symbiosis with your eBike. The perfect amount of support provides even greater riding enjoyment in every situation and the Performance Line CX will not overheat, even during long ascents. Specially developed for sporty riding on mountainous terrain, eMTB mode raises eMountain biking on trails to a whole new level: it is no longer necessary to switch riding modes, giving riders optimum control and allowing them to focus on a thrilling riding experience. What more could you want?

The facts

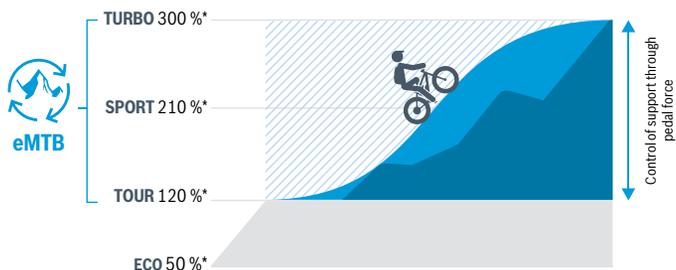
- ▶ Direct Flow: Perfect support as soon as you step onto the pedals. Moving off steep ascents is made significantly easier.
- ▶ Progressive Support: For a natural riding sensation and optimum control. Depending on the pedal pressure, the progressive motor support automatically adapts to the individual riding style.
- ▶ No trigger: More riding enjoyment with eMTB mode without having to switch modes. There is no need to change support modes in eMTB mode, so the rider can concentrate fully on the trail.
- ▶ Trail Control: Improved control in difficult riding situations. Enables effortless riding and optimal traction on technical uphill sections and over obstacles.
- ▶ Maximum momentum: With a torque of up to 75 Nm. For sporty acceleration even in alpine terrain, without changing gear.

eMTB mode

for the ultimate Uphill Flow

For a powerful start on steep uphill sections and on rough terrain: the eMTB mode replaces the previous 'Sport' mode in the Performance Line CX drive unit and switches between 'Tour' and 'Turbo' riding modes. With a maximum torque of up to 75 Nm, the motor dynamically supports the rider's own pedal power by between 120 and 300 percent in eMTB mode, depending on the pressure applied to the pedals. Improved start-up behavior guarantees optimal support in all terrains and on any trail. The dealer can upgrade the Performance Line CX at any time with the new eMTB mode or, if desired, load the classic Sport mode. In eMTB mode, the rider receives the required power – always precisely at the right moment. Enjoy smooth starts, cover ground more easily and arrive at your destination after an exhilarating riding sensation: that's what the flow of the Performance Line CX is all about.

- ▶ Better delivery: Ensures maximum traction and control.
- ▶ Sporty starting: Perfect start-up behavior as soon as you step onto the pedals.
- ▶ Improved dynamics: Enables effortless riding on technical uphill sections or over obstacles.



*Support in % of pedal power

Technical details on page 64



Ideal support, even for short cranks

Whether you have long or short cranks, Bosch provides the right support, according to the torque. Short cranks of up to 165 mm give you extra ground clearance in eMTB mode. Your specialist dealer will be able to make the corresponding adjustment.

Powerful walk assistance

Whether you encounter a carpet of roots or mountain slopes: The new, powerful walk assistance offers reliable, uninterrupted support, even on steep gradients – always optimized to the walking speed.

EX1

The combination of the Performance Line CX and the new SRAM EX1 shifter groupset turn sporty eMountain bikes into real climbing artists.



eShift for eMTB

The derailleur system with the Shimano Deore XT Di2 and Shimano XTR Di2 is the electronic gear shifting solution especially for sports use, for example on eMountain bikes.

Caption



VISIT THE WEBSITE
[bosch-ebike.com/guide](https://www.bosch-ebike.com/guide)

Performance Line CX + Kiox + eMTB mode + PowerTube 500

Now there's nothing to get in the way of uphill riding enjoyment



However steep the incline or technically demanding the trail – the Performance Line CX adds a new dimension to eMountain biking and you reach a whole new range of destinations. In conjunction with eMTB mode, even the steepest incline becomes less daunting and the optimized modulation provides a more sporty start, unique dynamics and maximum performance on unpaved trails. With the PowerTube 500, you can experience the power of Uphill Flow into the high cadence range and benefit from sporty acceleration on long tours and up steep inclines. Enjoy the exhilarating feeling of Uphill Flow and experience unique riding enjoyment in the mountains. The stylish Kiox on-board computer is a reliable companion for your exciting eMTB experience.



YOUR SIGHTS ARE ON THE SUMMIT; YOUR MIND IS ON ADVENTURE

#uphillflow

We are ready to take new directions. With eMountainbiking in Uphill Flow, we push our boundaries and discover what we really can do. We also achieve the seemingly unattainable. We act instinctively and with a sense of fun, until the dynamic of the uphill challenge changes and you experience a feeling of flow. Experience Uphill Flow now.

A photograph of three e-bike riders ascending a rocky, sparsely vegetated hillside. The sky is filled with dramatic, orange and grey clouds, suggesting a sunset or sunrise. The riders are positioned diagonally across the frame, from the bottom left towards the top right. The lead rider is wearing a bright green jacket, the middle rider a pink jacket, and the third rider a blue jacket. They are all on e-bikes, and their shadows are cast on the rocks.

“For me, Uphill Flow is an extension of the flow window through eMountain Bike technology – now also for uphill riding.”

Stefan Schlie
Runner-up Trials World Champion



VISIT THE WEBSITE
bosch-ebike.com/uphillflow

eShift



Integrated gear shifting, relaxed riding

The integrated, electronic eShift gear shifting solution ensures riding comfort, safety, a longer range and reduced wear. With its partners enviolo, Rohloff and Shimano, Bosch eBike Systems has developed four electronic gear shifting solutions that provide a host of benefits whether you're on the road or trail: Rohloff E-14 Speedhub 500/14, 'eShift'

with Shimano (available in two options) and enviolo Automatic+. The automatic shifting system for hubs or especially for eMountain bikes with the electronic derailleur systems Shimano XTR Di2 and Shimano Deore XT Di2, eShift offers an optimal solution for various applications and Bosch product lines.

enviolo



Select the required cadence and the enviolo gear shifting system with eShift will switch to the best gear ratio fully automatically – even on inclines. This enables you to ride with a steady load and in an anticipatory style, without getting out of breath due to an excessively high cadence.

- ▶ Adjustable cadence from 30 to 100 revolutions per minute
- ▶ Gear system: stepless
- ▶ Also suitable for speed eBikes up to 28 mph (45 km/h)

A reliable hub gear system that satisfies the most stringent demand and that is designed for maximum mileage. Enjoy high gear shifting comfort, as well as fast and precise shifting and the certainty of always being in the right gear.

- ▶ 14 gears and 526 % gear spread with integrated multi-shift function also for sporty eBikes
- ▶ Current gear indicated in the Bosch display
- ▶ Reliable hub gear, designed for maximum mileage
- ▶ Also suitable for speed eBikes up to 28 mph (45 km/h)

SHIMANO Di2

Di2 is Shimano's platform for electronic gear shifting. The derailleur system (Shimano XTR Di2 or Shimano Deore XT Di2) is the electronic gear shifting solution especially for sports use, for example on eMountain bikes. The automatic hub gear system models (Shimano Nexus Di2 and Shimano Alfine Di2) are well suited for use in the city or on trekking tours and can be operated manually. They offer fast, precise gear shifting and the auto-downshift function automatically shifts to a previously defined gear when the bike comes to a stop. This makes it easier for the rider to move off again and enhances safety.

- ▶ Quick, precise gear changes for a sporty riding sensation
- ▶ Shift recommendation feature selects the best gear ratio
- ▶ Brief throttling of the motor during the gear shifting operation allows smooth, synchronized gear changes
- ▶ Shift paddle on the handlebar
- ▶ Auto-downshift function for the hub gear system: The gear shifting system changes automatically to the predefined starting gear



Compatible with



- ✓ Active Line
- ✓ Active Line Plus
- ✓ Performance Line
- ✓ Performance Line CX



Intuvia



Kiox

eShift explained

eShift solutions are available for hub gear and derailleur systems. Manual or automatic gear shifting is available per your preference. The individual solutions and applications are explained below.

Automatic gear shifting



SHIMANO

Nexus Di2 + Alfine Di2



Hub gear system



Defined gears



Cruise



Is Shimano with hub gear the right system for you?

Yes, if you wish to focus completely on the trip with your eBike and not on gear shifting. This system handles automatic gear shifting according to your cadence and pedal force.

enviolo

NuVinci Optimized™ enviolo Automatic+



Hub gear system



Variable gear ratio



Cruise/Speed



Is enviolo the right system for you?

Yes, if you wish to focus completely on the trip with your eBike and not on gear shifting. This system handles automatic gear shifting according to your cadence.

Manual gear shifting



SHIMANO

XTR Di2 + Deore XT Di2



Derailleur system



Defined gears



Cruise



Is Shimano with derailleur the right system for you?

Yes, if you prefer a sporty riding sensation but still want an electronic derailleur. You, the rider, have control over gear selection.



E-14 Speedhub 500/14



Hub gear system



Defined gears



Cruise/Speed



Is Rohloff the right system for you?

Yes, if you want to select your gears manually and appreciate the advantages of the quiet, nearly maintenance-free hub gear.

On-board computer



THE BEST ASSISTANCE IS ALWAYS ON BOARD

FEEL THE FLOW

Support in all situations: The various Bosch eBike on-board computers will support you – whatever your plans. From the clear delivery of the key riding data through to bike-optimized route calculation, Purion provides a swift overview that reduces all information to the essentials.

The Intuvia is an easy-to-operate control center. The new sporty compact Kiox on-board computer will stick with you through thick and thin.

Purion



Intuvia



Kiox



On-board computer

Riding modes

At a glance

The Bosch eBike on-board computer offers the perfect riding mode for every situation. Choose between five support levels. When pushing your bike, a walk assistance feature activated in two settings provides assistance up to 3.7 mph (6 km/h).



Turbo

Direct and maximum power support up to the highest cadences for sporty riding.



Sport/eMTB*

Direct, powerful support at maximum power into the highest cadence ranges for sporty riding, whether off-road or in urban traffic.



Tour

Measured support for long distances with a clear focus on long ranges.



Eco

Effective but gentle support, designed for maximum efficiency and long ranges.



Off

No support, Intuvia, Purion and Kiox continues to display all the most important information.



Active walking assistance

Use the on-board computer to activate finely modulated support up to 3.7 mph (6 km/h). Walk assistance can be activated in two settings for the greatest possible safety.



Purion



Intuvia



Kiox

* The eMTB mode, specially designed for the Performance Line CX, dynamically varies between the Tour and Turbo riding modes – motor support for maximum performance on the trail.





Purion

Compact purist



► Riding modes,
page 44

You can focus on the essentials and get all important information at a click of your thumb: the Purion on-board computer operates with maximum efficiency and precision.

The facts

- Clearly arranged display: Charge status, speed, riding mode, range, trip distance and total distance.
- Outstanding readability: The backlit non-glare display allows you to read all riding data clearly, even in direct sunlight.
- The optional service interval display always reminds you when the eBike is next due for a service.
- Easy diagnostics: Specialist dealers can check the condition of your Bosch eBike system using the micro-USB port.
- Focusing on the basics: Five support levels, reliable operation using your thumb, takes up very little space on the handlebar.
- Light system: if the eBike light was on when the system was switched off, it is automatically switched on the next time the system is started.



Intuvia

Clever and clearly arranged



▶ Riding modes,
page 44

Intuvia guarantees easy and intuitive control of your eBike. The display remains clearly visible under all lighting conditions. The separate control unit allows you to keep your hands safely on the handlebar and you are guaranteed a clear view of all riding data at all times. The shift recommendation feature makes sure you always pedal in the right gear, thus preserving the battery and increasing your range.

The facts

- ▶ Maximum ease of use: Easy operation via the separate control unit.
- ▶ Ideal for traveling: Even when removed from the eBike all important information, such as the total distance, can be displayed.
- ▶ Good readability under all light conditions.
- ▶ Charging station: Intuvia can charge devices such as your smartphone via the micro-USB port while you are on the move.
- ▶ The optional interval display always reminds you when the eBike is next due for a service.
- ▶ Light system: if the eBike light was on when the system was switched off, it is automatically switched on the next time the system is started.

Compatible with 



TOUR

23.5 KM/H

43 KM

Range

RESET

 **BOSCH**



NEU

Kiox

Sporty and compact

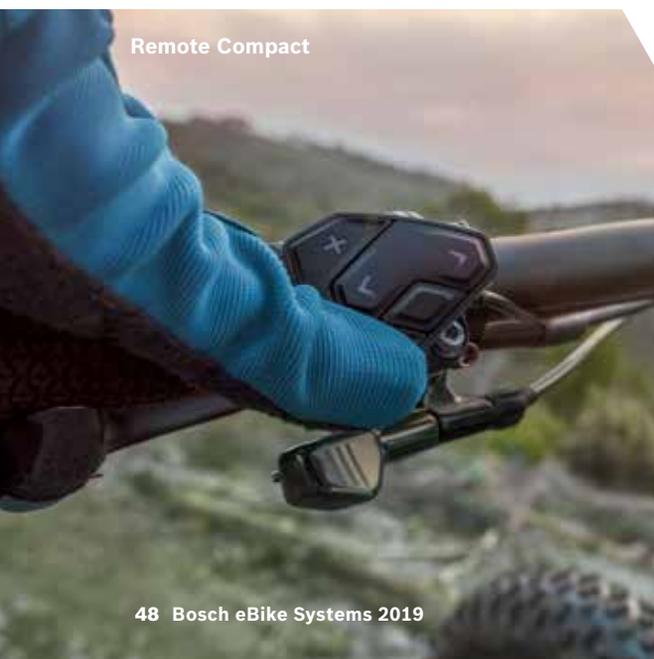


▶ Riding modes,
page 44

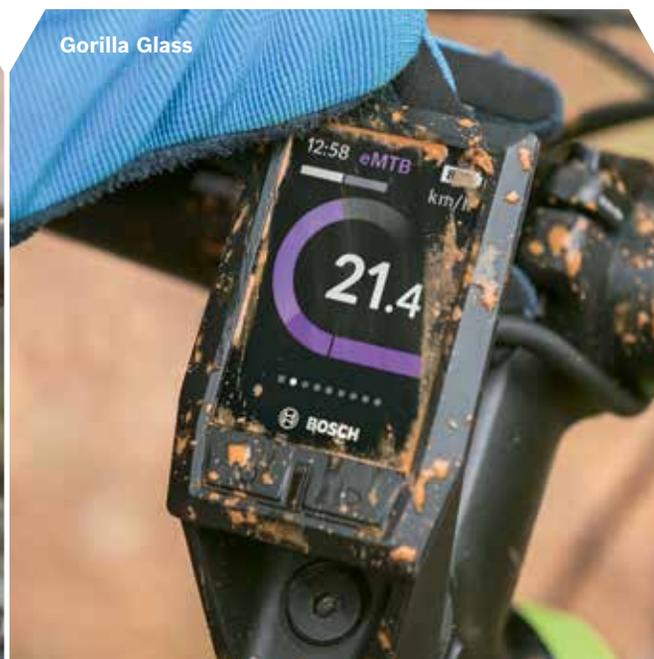
Kiox offers all the functions that a sporty rider could need. The small, scratch-resistant color display is controlled by the separate control unit with clear tactile feedback and delivers riding data on speed, rider performance, heart rate, battery charge and much more. Kiox means you have all essential information at your finger tips, while keeping control of the handlebar and terrain thanks to the separate Remote Compact. Using

Bluetooth technology with an optional chest strap, 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 enables updates to the software to be downloaded onto your on-board computer without requiring a cable connection. More connectivity functions are to follow.

Remote Compact



Gorilla Glass



Legibility



The facts

- ▶ Remote Compact: The buttons enable the on-board computer to be operated safely and comfortably using your thumb. The distinct, tactile pressure behind the buttons during operation gives the rider clear feedback.
- ▶ Gorilla Glass: Whether dirt or stone chippings: the scratch-resistant Gorilla Glass display is an ideal partner both off road and in the city.
- ▶ Readability: The 1.9" high-resolution color display guarantees perfect readability even under strong sunlight. And because the backlight adapts to the lighting conditions, everything is perfectly readable – even in the dark.
- ▶ Magnetic holder: Secure and flexible – the magnetic holder allows for easy removal and attachment of the on-board computer, as well as a firm hold.
- ▶ Operability: Climb on, switch on, ride away and have fun. The on-board computer can be used immediately and provides you with all the essential information and data.
- ▶ Training: Use Bluetooth Low Energy (BLE) to connect the Kiox to a heart rate monitor. This allows you to monitor your heart rate and get the most out of your training.
- ▶ Motivation: Improve your level of fitness: for example, an indicator on the display shows you whether you are riding at above or below your average speed. This will motivate you to push yourself even harder.
- ▶ Kiox and eShift: Kiox also works with eShift, the integrated electronic gear shifting solution,

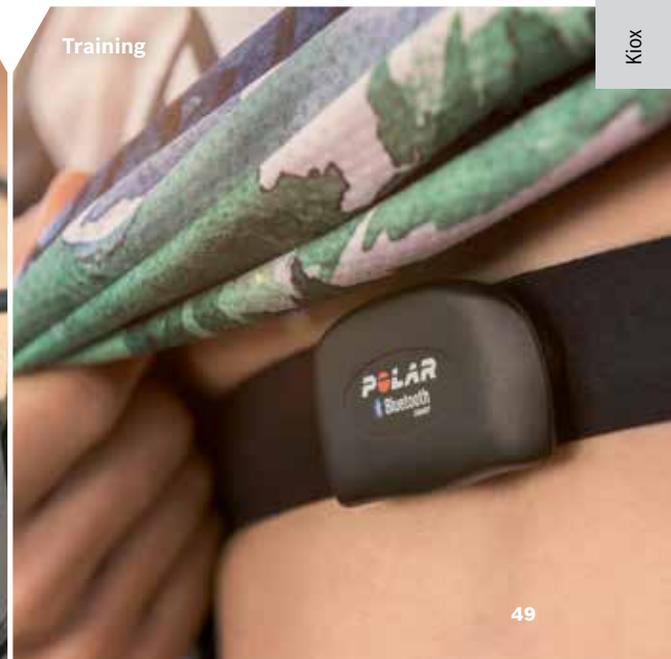
Compatible with 



Magnetic holder



Training



Batteries + Chargers



KEEP GOING WITHOUT A BREAK

FEEL THE FLOW

Bosch batteries are an efficient energy provider with staying power – and the most modern eBike batteries on the market. The high-quality lithium-ion batteries are equipped with an innovative Battery Management System. This detects potential sources of error and protects the cells from overload, ensuring maximum safety and a long battery service life. All Bosch batteries and chargers feature the “UL Classified” quality mark from the prestigious Underwriters Laboratory for peace of mind. The Bosch rechargeable batteries combine impressive mileage performance and low weight with ergonomic design and simple handling. This means that there are no limits to your riding enjoyment.



VIEW
BATTERY
GUIDE

PowerPacks

Energy made to measure

The Bosch PowerPack 500 is the same size as and only slightly heavier than the PowerPack 400 but extends the range. The high-performance PowerTube 500 or PowerPack 500 are fully charged after only 4.5 hours. The PowerPack 400 provides reliable and long-lasting energy storage without memory effect and with minimal self-discharge. Frame batteries are constructed so that the PowerPack sits close to the center of your eBike, which provides greater stability. The rack battery variant is frequently used in conjunction with frames with a low step-through. Regardless of where the battery is mounted, it can be easily removed and charged at the nearest power socket. Because of their high energy density, the PowerPack 400 is among the lightest batteries in their class on the market.



Compatible with 



Purion



Intuvia



Kiox



PowerPack 400

- ▶ Voltage: 36 V
- ▶ Capacity: 11.0 Ah
- ▶ Energy content: approx. 400 Wh
- ▶ Weight: Frame battery approx. 5.5 lbs (2.5 kg), rack battery approx. 5.7 lbs (2.6 kg).
- ▶ Dimensions: 325 x 92 x 90 mm (frame battery), 372 x 122 x 80 mm (rack battery)
- ▶ Charging time: 50 % charge approx. 1.5 h, full charge approx. 3.5 h
- ▶ UL Classified—Bosch PowerPack feature the “UL Classified” quality mark from the prestigious Underwriters Laboratory for peace of mind



PowerPack 500

- ▶ Voltage: 36 V
- ▶ Capacity: 13.4 Ah
- ▶ Energy content: approx. 500 Wh
- ▶ Weight: Frame battery approx. 5.7 lbs (2.6 kg), rack battery approx. 6.0 lbs (2.7 kg)
- ▶ Dimensions: 325 x 92 x 90 mm (frame battery), 372 x 122 x 80 mm (rack battery)
- ▶ Charging time: 50 % charge approx. 2 h, full charge approx. 4.5 h
- ▶ UL Classified—Bosch PowerPack feature the “UL Classified” quality mark from the prestigious Underwriters Laboratory for peace of mind



WEBSITE
bosch-ebike.com/us/service/range-assistance





PowerTube 500

Power by design



Vertical variant ▲

▼ Horizontal variant

With the PowerTube 500, Bosch sets new standards and presents a pared-down, timeless look coupled with sophisticated technology. Thanks to its compact dimensions and minimalistic design, the lithium-ion battery, which can be fully integrated into the bike frame, opens up new options for eBike manufacturers. It can be installed by the eBike manufacturer either vertically or horizontally. The battery is perfectly protected by the frame. A convenient function means that the battery pops approx. 2 cm out of the frame when unlocked, making it easier to take hold of. With an energy capacity of approx. 500 Wh, the lithium-ion battery also lasts through extended tours. The surface impresses with its classy, black anodised aluminium finish.

- ▶ Voltage: 36 V
- ▶ Capacity: 13.4 Ah
- ▶ Energy content: approx. 500 Wh
- ▶ Weight: approx 6.2 lbs (2.8 kg)
- ▶ Dimensions: 349 x 84 x 65 mm
- ▶ Charging time*: 100%= 4.5h; 50%=2h with the standard charger!! (1.2h/3h are with the fast charger only)
- ▶ UL Classified—Bosch PowerTube feature the "UL Classified" quality mark from the prestigious Underwriters Laboratory for peace of mind



Compatible with



Purion

Intuvia

Kiox

DualBattery

Twice the range

Just keep on riding: DualBattery is the perfect solution for tour bikers, long-distance commuters or cabby bikers. The combination of two Bosch batteries delivers up to 1,000 Watt hours and can be installed using any battery combination from the eBike manufacturer. DualBattery is also possible in combination with PowerTube. The system switches intelligently between the two batteries both during charging and discharging. DualBattery is suitable for long distances and heavy loads.

More range for long distances

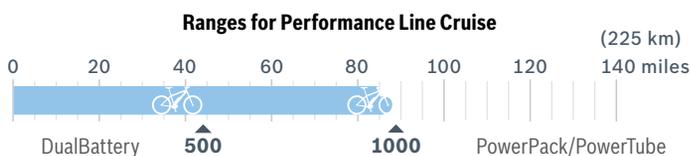
- ▶ DualBattery permits an energy content of up to 1,000 Wh. This enables you to double your range.
- ▶ Intelligent energy management control software charges both batteries.
- ▶ The following combinations are possible: Two PowerTubes, two PowerPacks or a PowerTube and PowerPack.*
- ▶ The Battery Management System also offers maximum protection for the DualBattery system against overcharging, undervoltage, overheating and short circuits as well as extending the service life of the batteries.

PowerTube + PowerPack ▼



For that extra mile

Perfect for commuters with a long journey to work or eCargo bike riders – also allows ambitious sports enthusiasts to go that extra mile.



Average of combined use of all four modes and favorable conditions.

Chargers

Energy in an instant

Bosch chargers are handy, lightweight and robust. The housings are designed without vents to protect the chargers from dirt and grime. Wherever your journey may take you: With the 2A Compact Charger and 4A Standard Charger, Bosch has developed two models that will charge your eBike quickly and reliably.

- ▶ **Functional and silent:** An ergonomically formed charging plug facilitates handling; the compact dimensions allow the device to fit comfortably into the handbag. The enclosed housing gives the charger extra stability, while the battery charges with minimal noise.
- ▶ **Easy to handle and compact:** They also feature a practical velcro fastener for stowing the cable tidily.
- ▶ **Can be used with supply voltages of 110 to 230 volts** and can also be used in the United States and Canada as well as Europe and Australia.
- ▶ **UL Classified** – Bosch Chargers feature the “UL Classified” quality mark from the prestigious Underwriters Laboratory for peace of mind.



Compact Charger

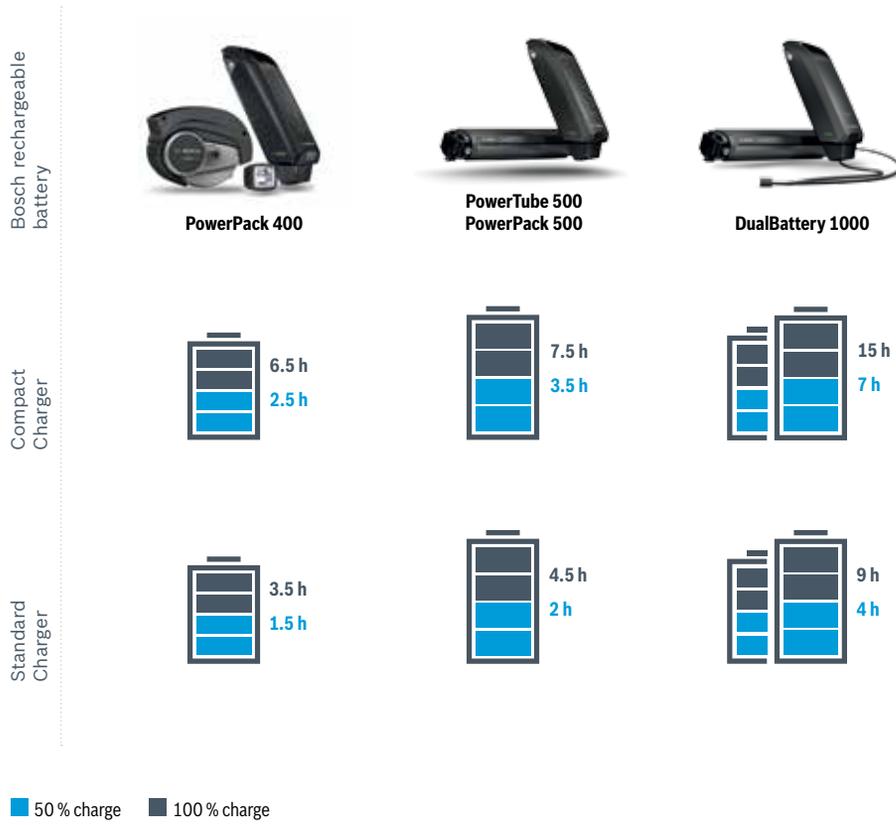
The Compact Charger is the ideal charger for all eBikers who are constantly on the move. It weighs less than 600 grams and is 40% smaller than the Standard Charger – small enough to fit into any pannier.



Standard Charger

The robust, functional 4A Standard Charger is the most well rounded amongst the Bosch chargers. It offers the ideal balance between performance, weight and size and is extremely versatile.

A Comparison of the Charging Times of the Charger Models:



Safety comes first!

Minimizing risks while maximising riding enjoyment

Bosch eBike Systems provides innovative and inspiring mobility solutions. For people who want to get around in relaxation, sustainably and above all safely. For people who enjoy cycling.

Risk:

Faults on the eBike

Lack of regular maintenance increases the safety risk.



Solution:

Specialist dealers can use the **service interval display** to set a regular service schedule.



Risk:

The dangers of manipulation

People who “tune” their eBikes endanger not only themselves, but also other road users. This can result in the invalidation of insurance claims and criminal prosecutions. In addition, you risk losing your warranty and guarantee entitlements on the Bosch eBike system. As a general rule, using the system improperly will also reduce the service life and the eBiker risks causing damage to the drive unit and eBike.



Solution:

Bosch eBike Systems urges all eBike users not to resort to tuning. eBikers should never use so-called tuning kits or otherwise tamper with the Bosch eBike drive system.



Risk:

Inadequate protection

Only **60%** of eBikers wear protective headgear while biking (up to 16 mph).

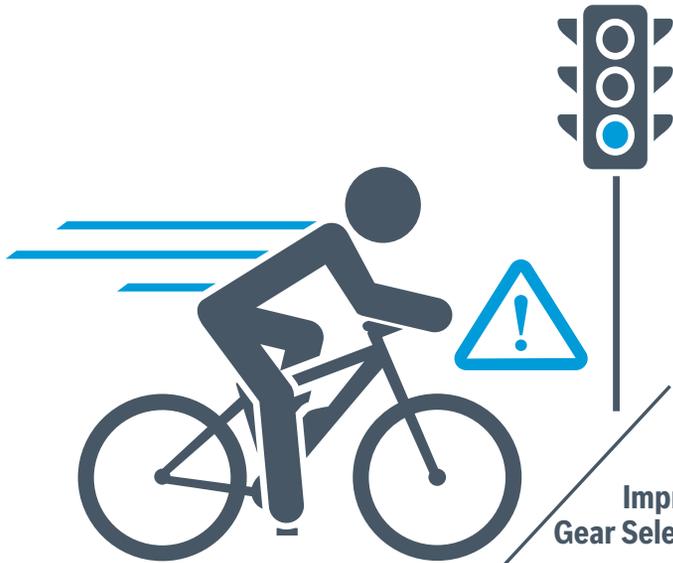
Up to **70%** of head injuries caused during accidents can be prevented by using helmets.



Solution:

Wearing a helmet protects against injury. **In-mould helmets** offer good protection. During manufacturing, the shock-absorbing hard foam is injected directly into the outer shell.





Risk:
Improper Gear Selection

Improper gear selection when beginning pedaling is a common cause of error that can have dangerous consequences.



Solution:

The **3-sensor concept** of Bosch drives measures **torque, speed and acceleration** more than 1,000 times per second and determines precisely what support the rider needs in the particular situation. You experience gentle starting and optimal acceleration. With the automatic eShift solution for hub gear systems, you always start in the best starting gear. eShift always ensures enhanced riding comfort.



Risk:
Insufficient energy

Some people interested in eBikes are doubtful that the eBike battery will really be sufficient for their purposes.

See the Bosch Battery Guide for information on battery handling and care.



Solution:

Bosch batteries are among the most efficient on the market. **Ranges of more than 62 miles** are possible with a single battery charge. DualBattery, combining two Bosch batteries, offers energy content of up to 1,000 Wh for long distances or steep climbs. Our Range Assistant at bosch-ebike.com/range-assistant is worth visiting to calculate a typical range under various conditions.



Risk:
Feeling unsteady on the bike

Beginners and less experienced riders sometimes have difficulty with the ride characteristics of an eBike and the road traffic regulations.



Solution:

Many specialist dealers offer **rider safety training courses** for this purpose. The Bosch eBike Systems website also provides helpful pointers for beginners. Find more information at: bosch-ebike.com/riding



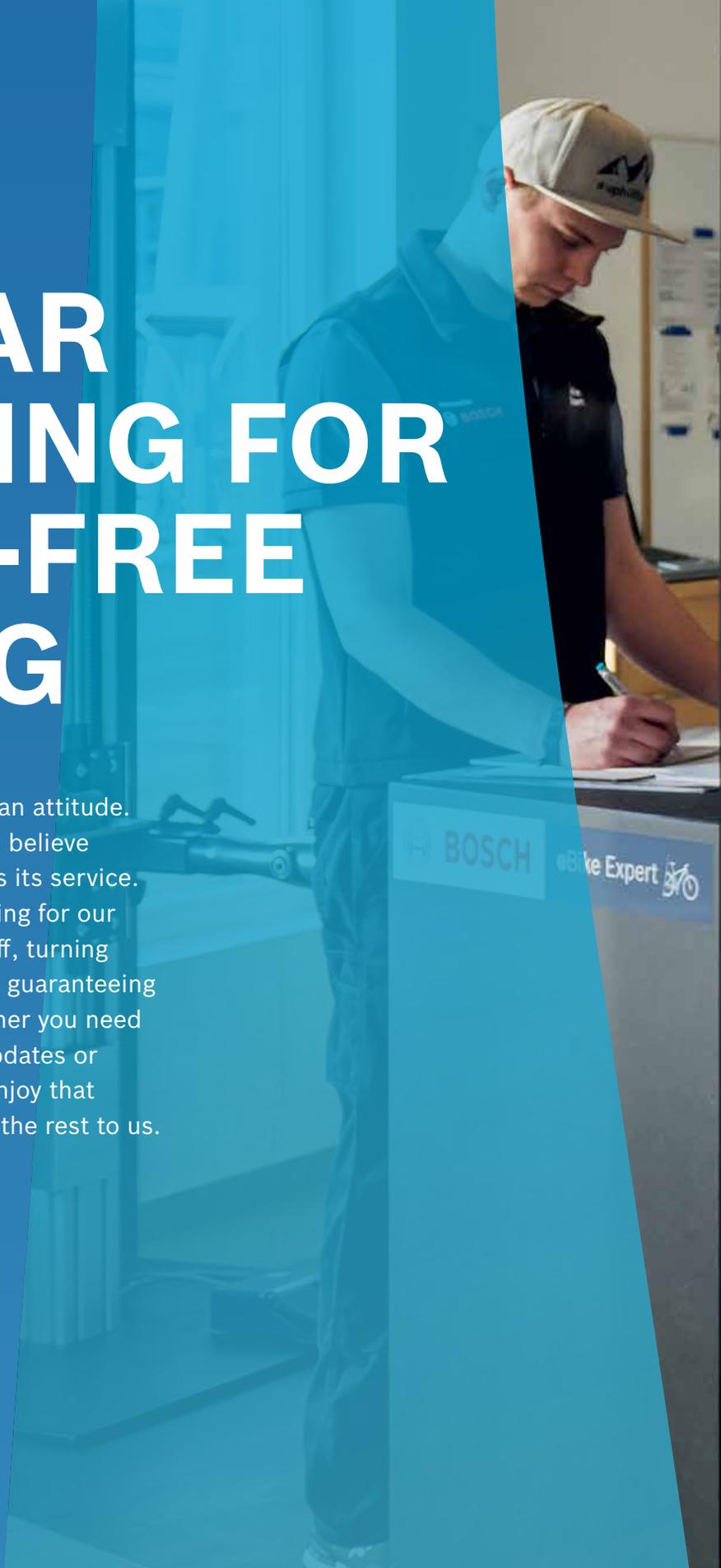
Sources:

Safety Potential of Bicycle Helmets (Final Report), Research Project by HFC Human-Factors-Consult GmbH; Bundesanstalt für Straßenwesen (German Federal Highway Research Institute), Mensch und Sicherheit Issue M264; Swiss Council for Accident Prevention (bfu) survey 2016: Helmtragquoten der Radfahrenden im Strassenverkehr

Service

REGULAR SERVICING FOR WORRY-FREE CYCLING

Service is more than a promise. It's an attitude. Because we at Bosch eBike Systems believe that every product is only as good as its service. We therefore provide intensive training for our specialist dealers and workshop staff, turning them into eBike specialists and thus guaranteeing you the best possible service. Whether you need personal advice, regular software updates or comprehensive all-around checks: Enjoy that special riding sensation – and leave the rest to us.





SEE
SERVICE
SERIES

Service



11

Bosch eBike Experts

excel by virtue of many years of Bosch **eBike expertise** and **consulting excellence**. Throughout United States and Canada **shops** bear this mark. Find them on our dealer locator.

30

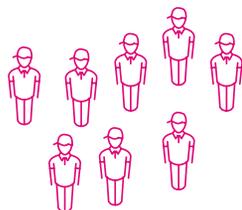
More than **brands** in the **United States** and **Canada**.



8

Bosch technical representatives

8 Tech Reps in **United States**.



Products to retrofit

Bosch eBike Systems provides extensive and reliable aftersales service for your eBike. Many of our products can be retrofitted – so that your eBike system is always equipped with the components you want.

- ▶ On-board computers: All of our on-board computers are available as retrofit kits. Make a switch – for example from Intuvia to Purion.
- ▶ Batteries: Do you want an additional battery for even longer riding enjoyment? Our batteries can be purchased directly from your specialist dealer.
- ▶ Chargers: You can recharge your Bosch batteries quickly using our chargers. Compact and Standard Chargers are available from dealers.

DiagnosticTool

The DiagnosticTool, a professional diagnostics solution, enables the dealer to read and update the eBike data. Adjustments (e.g. activate/deactivate walk assistance or the light function) can also be made to the eBike without voiding the warranty. For example, the eBike software can be updated in order to install the latest features and ensure the full functionality of the eBike system. Furthermore, configuration data and error codes can be read out from the eBike components and individual adjustments can be made. Moreover, the tool also includes a tuning detection feature. The diagnostic report shows the current status of the Bosch eBike components and contains a great deal of useful information.

Find your Bosch eBike retailer at:

[bosch-ebike.com/us/service/dealer-search](https://www.bosch-ebike.com/us/service/dealer-search)



Questions and Answers

▶ Does Bosch produce its own eBikes?

Bosch does not manufacture its own eBikes. As a provider of eBike systems, we work together with renowned bicycle manufacturers that develop eBikes. More than 30 well-known bicycle brands in the United States already use eBike systems with the “ePowered by Bosch” quality seal.

▶ Which bike brands offer the Bosch eBike system?

You can find an overview of all manufacturers that develop eBikes ePowered by Bosch here: [bosch-ebike.com/us/service/ebike-brands-us](https://www.bosch-ebike.com/us/service/ebike-brands-us)

▶ Is a dealer directory available?

Our dealer search provides details of all bicycle retailers who sell eBikes – ePowered by Bosch. We recommend Bosch eBike experts in the United States and Canada in particular because they provide special professional advice. You can find an overview of all retailers who sell eBikes ePowered by Bosch here: [bosch-ebike.com/us/service/dealer-search](https://www.bosch-ebike.com/us/service/dealer-search)

▶ Which systems does Bosch offer?

Bosch eBike Systems currently offers four product lines: The elegant Active Line, the smooth Active Line Plus, the sporty Performance Line and the powerful Performance Line CX designed specially for eMountain biking. The Active and Active Plus drive units provide support up to 20 mph (32 km/h). The drive unit for the Performance Line is available in the Cruise 20 mph (32 km/h) and Speed up to 28 mph (45 km/h).

▶ Is tuning allowed?

No, tuning is not permitted. Using a tuning kit or manipulating your Bosch eBike system in any other way will risk invalidating your guarantee and any warranty entitlements for the purchased bike. As a general rule, using the system improperly will also reduce the service life and risk causing damage to the drive unit and bike. You may also endanger your safety and the safety of other road users as well as incurring high personal liability costs and even criminal prosecution as a result of accidents attributed to tuning. Bosch eBike Systems therefore asks that all riders and providers refrain from tuning eBikes.

▶ Can a bike be retrofitted with the Bosch eBike system?

For technical reasons, the Bosch eBike system is not available as a retrofit kit. A special frame is required to integrate the drive system in the bike. Bicycle manufacturers produce the frame specially for eBikes ePowered by Bosch. We work together with more than 30 manufacturers in the United States. You can find an overview here: [bosch-ebike.com/us/service/ebike-brands-us](https://www.bosch-ebike.com/us/service/ebike-brands-us)

▶ Which parts of the Bosch drive system can riders repair themselves?

If an eBike fitted with the Bosch drive system develops a defect related to our eBike drive, we recommend consulting a professional bicycle retailer specializing in eBikes. The retailer will have all the right special tools such as a software diagnosis tool to identify the exact problem. Even ambitious bicycle repair enthusiasts may not be able to repair the defect and there is a significant risk that unprofessional repairs will compromise the safety of the overall system.

▶ Battery repairs, cell replacement and “refreshing” the battery?

“Some companies and internet-based service providers offer a battery repair, cell replacement or even a battery “refreshing” service: are these solutions suitable for repairing defective batteries?”

Batteries manufactured by Bosch eBike Systems are finely tuned systems that require special expert knowledge to repair. A defective battery must always be replaced and then inspected by our service specialists. Opening or leaving a battery open can be dangerous: Repairing our batteries unprofessionally can lead to functional impairments and uncontrolled thermal reactions. Opening or modifying the batteries will void any warranty. This also applies for any other manipulations to the battery. If you have any questions about your battery, please always contact your local specialist retailer, who will get in touch with our service department.

▶ I have found a used battery for the Bosch eBike system online. Can I use it?

When purchasing used batteries, always make sure that they have not been damaged by their previous owner. Damaged batteries are occasionally available online but they pose a significant risk and can lead to dangerous malfunctions. Sometimes illegal or stolen goods are available online as well.

▶ Alternative replacement battery for the Bosch eBike system?

“I’ve found a low-cost replacement battery for the Bosch system online, but it was not manufactured by Bosch. Can I use this battery?”

We would strongly advise against using non-original Bosch replacement parts. The Bosch eBike system components are perfectly adapted to one another and provide for maximum efficiency and safety.

▶ Alternative charger for the Bosch eBike system?

“I’ve found a low-cost charger online for my eBike with Bosch system. Can I use it?”

Our charger is adapted specifically to the Bosch eBike system and has the right software for charging and managing the Bosch battery efficiently. Using a different charger voids the warranty and may reduce the service life of your battery as well as cause other damage or malfunctions in your eBike system.

▶ Purchasing a converted eBike?

“I’d like to purchase a used eBike. The previous owner said that he made a “few improvements to the eBike components”. What do you think?”

Our advice: Always decline offers of this kind. The Bosch eBike system is designed for maximum safety and durability, all system components are controlled and monitored by extremely complex software. Any intervention in the system design will almost certainly have a negative effect on performance. Possible consequence: The safety of the rider is endangered and use of the system may contravene statutory regulations.

▶ What warranty periods apply to the Bosch eBike system?

Robert Bosch LLC (“Bosch”) warrants that it will repair, replace or refund, at Bosch’s sole option, any Bosch eBike System component (“Product”) that has a significant non-conformance in materials or workmanship for a period of two years. The two year period begins from the date of original purchase by the end-consumer. Except as otherwise pre-approved in writing by Bosch, a Product utilized for commercial purposes will be warranted for one year from date of first end-consumer purchase. This warranty only applies to the original purchaser and is not transferable. Ask your retailer for full terms and conditions.

Technical Details Drive Units



	Active Line Cruise 20 mph (32 km/h)		Active Line Plus Cruise 20mph (32 km/h)		Performance Line Cruise 20 mph (32 km/h)		Performance Line Speed 28 mph (45 km/h)	Performance Line CX 20 mph (32 km/h)
	Derailleur system	Hub gear system	Derailleur system	Hub gear system	Derailleur system	Hub gear system	Derailleur system	Derailleur system
Power	250 W	250 W	350 W	250 W				
Support level (%)	TURBO: 250 SPORT: 170 TOUR: 100 ECO: 40	TURBO: 250 SPORT: 170 TOUR: 100 ECO: 40	TURBO: 270 SPORT: 180 TOUR: 100 ECO: 40	TURBO: 250 SPORT: 170 TOUR: 100 ECO: 40	TURBO: 275 SPORT: 190 TOUR: 120 ECO: 50	TURBO: 260 SPORT: 170 TOUR: 110 ECO: 50	TURBO: 275 SPORT: 190 TOUR: 120 ECO: 55	TURBO: 300 eMTB: 120-300 TOUR: 120 ECO: 50
Maximum possible drive torque (Nm) (converted to a gear ratio of 1:1 crankset to chainring)	TURBO: 40 SPORT: 38 TOUR: 35 ECO: 30	TURBO: 40 SPORT: 38 TOUR: 35 ECO: 30	TURBO: 50 SPORT: 45 TOUR: 40 ECO: 35	TURBO: 50 SPORT: 45 TOUR: 40 ECO: 35	TURBO: 63 SPORT: 55 TOUR: 50 ECO: 40	TURBO: 50 SPORT: 50 TOUR: 45 ECO: 40	TURBO: 63 SPORT: 55 TOUR: 50 ECO: 40	TURBO: 75 eMTB: 75 TOUR: 50 ECO: 40
Maximum cadence (rpm) with drive support	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 100	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 100	TURBO: 105 SPORT: 105 TOUR: 105 ECO: 105	TURBO: 105 SPORT: 105 TOUR: 105 ECO: 105	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 SPORT: 120 TOUR: 120 ECO: 120	TURBO: 120 eMTB: 120 TOUR: 120 ECO: 120
Start-up behavior	Gentle	Gentle	Moderate	Moderate	Sporty	Dynamic	Sporty	Very sporty
Max. support up to	20 mph (32 km/h)	20 mph (32 km/h)	28 mph (45 km/h)	20 mph (32 km/h)				
Backpedal function	no	optional	no	optional	no	no	no	no
Gear shift detection	yes	no	yes	no	yes	no	yes	yes (dynamic)
Weight approx.	<6.3 lbs (2.9 kg)	<6.3 lbs (2.9 kg)	<7.1 lbs (3.2 kg)	<7.1 lbs (3.2 kg)	<8.8 lbs (4.0 kg)	<8.8 lbs (4.0 kg)	<8.8 lbs (4.0 kg)	<8.8 lbs (4.0 kg)

Technical Details Batteries



	PowerPack 400	PowerPack 500	PowerTube 500
Mounting type	Frame battery Rack battery	Frame battery Rack battery	In the frame: horizontal/vertical
Voltage	36 V	36 V	36 V
Capacity	11.0 Ah	13.4 Ah	13.4 Ah
Energy content approx.	400 Wh	500 Wh	500 Wh
Weight, approx. Frame battery: Rack battery:	5.5 lbs (2.5 kg) 5.7 lbs (2.6 kg)	5.7 lbs (2.6 kg) 6.0 lbs (2.7 kg)	6.2 lbs (2.8 kg)
Size of Frame battery: Rack battery:	325 x 92 x 90 mm 372 x 122 x 80 mm	325 x 92 x 90 mm 372 x 122 x 80 mm	349 x 84 x 65 mm
Compatible with DualBattery	●	●	●

Technical Details Charger



	Compact Charger	Standard Charger
Charging current	max. 2 A	max. 4 A
Voltage	110–230 V	110–230 V
Size approx.	160 × 75 × 45 mm	190 × 86 × 54 mm
Wire lengths approx.	AC input: 1.5 m, DC output: 1.0 m	AC input: 1.5 m, DC output: 1.0 m
Plug	Country-specific power plug	Country-specific power plug
Weight approx.	1.3 lbs (0.6 kg)	1.8 lbs (0.8 kg)
Compatibility	Active Line / Active Line Plus / Performance Line / Performance Line CX compatible, Classic+ Line compatible using adapter plug (optional part)	

	Charging time	
PowerPack 400	6.5 h	3.5 h
PowerPack 500	7.5 h	4.5 h
PowerTube 500	7.5 h	4.5 h
DualBattery 1000	15.0 h	9.0 h

Technical Details Kiox



Hardware facts

- ▶ Transmissive 1.9-inch color display with Gorilla Glass 3 (208 × 274 pixels, 29 × 39 mm active range)
- ▶ Operation of the Kiox via the separate "Remote Compact" with Walk Assist button
- ▶ The display mount is installed on the stem or the eBike manufacturer has developed a specific holder solution using the modular mounting plate
- ▶ Two buttons for on/off and light directly on the display
- ▶ Brightness sensor automatically controls the brightness of the display day and night
- ▶ Integrated rechargeable battery delivers power in off-board mode for approx. 20 minutes; on-board it is charged from the eBike battery
- ▶ Rugged and IPx7 waterproof when the USB cap is closed
- ▶ Micro-USB port for diagnostics by your dealer, for charging the Kiox battery and for charging external devices such as compatible smartphones
- ▶ Temperature range: 23 °F (–5 °C) to 104 °F (+40 °C) (operating) and 14 °F (–10 °C) to 122 °F (50 °C) (storage)

Connectivity facts

- ▶ Bluetooth connectivity (BLE) for heart rate monitors



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