EVERY MOVEMENT NEEDS SOMEONE TO SET THE PACE

FEEL THE FLOW
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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.

“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

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 off-road companion. In conjunction with the app and the eBike Connect online portal, Nyon offers next generation connectivity.

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 (25 km/h), Performance Line Speed (45 km/h) and Performance Line CX variants. 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.

Pedelecs, eBikes, etc.: Definitions

The terms ‘electric bicycle’, ‘pedelec’ and eBike are often used interchangeably to refer to two-wheelers with electric drive. The most common examples are pedelecs with motor support of up to 25 km/h and a nominal continuous output of 250 watts. These “Pedelec 25s” only provide support while the rider is pedalling and are uniformly defined in Europe as EPAC (Electrically Power Assisted Cycles). Under traffic law they are defined as bicycles with all the associated rights and obligations. On the other hand, the legal requirements for S-pedelecs (up to 45 km/h) or eBikes with throttle grip are quite different. Bosch eBike Systems uses the term ‘eBike’ almost exclusively to refer to a “Pedelec 25” and is committed to responsible, lawfull and compliant eBiking – for even more cycling enjoyment.

On-board computer

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.

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 firmly held. The separate Remote Compact with clear tactile feedback also ensures comfortable and ergonomic operation of the on-board computer.

Bosch eBike Systems 2019

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On-board computer

Batteries

PowerPack 300/400/500
Whatever you are planning – Bosch has just the right battery for your needs. The Bosch PowerPacks 300, 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. A convenient function means that the battery pops approx. 2 cm out of the frame when unlocked, making it easier to take hold of.

Chargers

Standard Charger

Fast Charger

Compact Charger

New Features 2019

Bosch eBike ABS
With eBike ABS, Bosch is introducing a production-ready anti-lock braking system for pedelecs that enables controlled and stable braking, even in critical situations, onto the market. The intelligent combination of front wheel ABS and rear wheel lift control increases your safety and ensures optimised riding stability and control during braking.

Digital riding enjoyment with COBI.Bike
With the acquisition of the start-up COBI.Bike, Bosch eBike Systems is expanding its product portfolio in the area of connected products and services. Together with the products from Bosch eBike Systems, COBI.Bike products offer exceptional digital riding enjoyment.

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.

Fast Charger
The faster charging speed of the powerful 6A Fast Charger means that it makes short work of recharging the eBike battery. This makes the Fast Charger the perfect choice for eBikers who require shorter breaks in order to cover longer distances.

Performance Line CX
Two optimisations: 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 optimised 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.

Drive Units

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.

Nyon
The Nyon all-in-one on-board computer combines navigation, eBike control, riding data and so much more in a single device. You can use the eBike Connect app to connect Nyon to your smartphone via Bluetooth. In conjunction with the eBike Connect control portal, you can create your own personal, networked, interactive eBike experience.

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DualBattery
Ideal for tour bikers, long distance commuters and city 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.

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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.

3. On-board computer
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.

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.

Product lines:
- Active Line
- Active Line Plus
- Performance Line
- Performance Line Speed
- Performance Line CX

Riding styles:
- Very sporty riding in challenging terrain on unpaved roads.
- 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.
- Relaxed riding or commuting on surfaced roads or cycle paths as part of everyday life.

On-board computers:
- Purion
- Intuvia
- Kiox
- Nyon

Features:
- 5 Riding modes
- Shift recommendation
- Walk assistance
- High resolution display
- Splash-proof
- Off-board mode
- USB charging option
- Operated from handlebar
- Connected
- Navigation
- Fitness function
- Compatible with eShift
- Compatible with DualBattery

Mountains
Suburban
Tours
City
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:

<table>
<thead>
<tr>
<th>Product</th>
<th>Active Line</th>
<th>Active Line Plus</th>
<th>Performance Line Speed</th>
<th>Performance Line CX*</th>
<th>Performance Line Cruise</th>
<th>Active Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerPack 300</td>
<td><img src="image1.png" alt="Graph" /></td>
<td><img src="image2.png" alt="Graph" /></td>
<td><img src="image3.png" alt="Graph" /></td>
<td><img src="image4.png" alt="Graph" /></td>
<td><img src="image5.png" alt="Graph" /></td>
<td><img src="image6.png" alt="Graph" /></td>
</tr>
<tr>
<td>PowerPack 400</td>
<td><img src="image7.png" alt="Graph" /></td>
<td><img src="image8.png" alt="Graph" /></td>
<td><img src="image9.png" alt="Graph" /></td>
<td><img src="image10.png" alt="Graph" /></td>
<td><img src="image11.png" alt="Graph" /></td>
<td><img src="image12.png" alt="Graph" /></td>
</tr>
<tr>
<td>PowerTube 500 and PowerPack 500</td>
<td><img src="image13.png" alt="Graph" /></td>
<td><img src="image14.png" alt="Graph" /></td>
<td><img src="image15.png" alt="Graph" /></td>
<td><img src="image16.png" alt="Graph" /></td>
<td><img src="image17.png" alt="Graph" /></td>
<td><img src="image18.png" alt="Graph" /></td>
</tr>
<tr>
<td>DualBattery 1000</td>
<td><img src="image19.png" alt="Graph" /></td>
<td><img src="image20.png" alt="Graph" /></td>
<td><img src="image21.png" alt="Graph" /></td>
<td><img src="image22.png" alt="Graph" /></td>
<td><img src="image23.png" alt="Graph" /></td>
<td><img src="image24.png" alt="Graph" /></td>
</tr>
</tbody>
</table>

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

**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 go. 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.
- **Cycle type and position**: Choose your bike and the corresponding position.
- **Tyre tread**: What tyres are fitted on your bike? The typical tyre pressure is chosen to correspond to the area of application and the tyre 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 45 km/h.
- **Battery**: Which rechargeable battery is installed in your eBike? If you have a DualBattery, please activate the DualBattery option. DualBattery combines any two Bosch rechargeable batteries.
- **Gears**: What gearshift is installed on your eBike?

**Environment**
- **Terrain type**: Uphill, hilly or flat as a pancake?
- **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?

**Calculate your approximate range using the Range Assistant at [bosch-ebike.com/range](http://bosch-ebike.com/range)**

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Difficult conditions** | Ideal conditions***
--- | ---

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**Active Line Plus** 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.
Active Line

THAT FEELING OF DISCOVERING THE CITY ALL OVER AGAIN

FEEL THE FLOW

Compact, lightweight design and harmonious 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, features a smart backpedal function and supports the eBiker with speeds up to 25 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 harmonious 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 25 km/h. The pedal resistance is minimal even above this speed or when switched off. Weighing only 2.9 kg, the drive unit is the smallest, lightest and most elegant system in the Bosch eBike product family. Benefits 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 acceleration.
- Maximum drive: Gentle support, perfect for city trips.
- Drive unit: Moderate support for greater mobility in everyday use up to a maximum of 25 km/h.
- Backpedal function: The Active Line is also available with a backpedal function.

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 2.9 kg.
- Unique riding experience: Experience harmonious acceleration with minimum pedal resistance when switched off or at over 25 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 centre 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 harmonious power characteristic.
- Award-winning design: Bosch sets new standards with flowing shapes and harmonious lines. The Active Line has already won the Red Dot Design Award.

Technical details on page 74

Average of combined use of all four modes and favourable conditions.
Active Line +

Purion +

PowerPack 300

Elegant and smart support

Relaxation on all trips: The Active Line delivers moderate support while providing a particularly enjoyable riding sensation. It is the harmonious, smart drive for anyone who enjoys riding on paved roads or bike trails and wants to have carefree everyday excursions. The PowerPack 300 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.
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 3.2 kg drive unit is particularly quiet, small and efficient and, offering speeds up to 25 km/h, is the right drive for exploration and adventure. Also available with an optional backpedal function, the stable, low-noise Bosch motor can be relied on for great riding enjoyment. Experience the flow of the Active Line Plus.

#FeelTheFlow
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 25 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 harmonious 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

The facts

- Carefree riding experience: The innovative drive concept impresses with its very light weight of only 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 harmoniously balanced acceleration.
- Unique riding experience: Experience harmonious acceleration with minimum pedal resistance when switched off or at over 25 km/h.
- Outstanding support: The intelligent 3-sensor concept of the drive unit takes more than 1,000 measurements per second to ensure a harmonious 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 harmonious lines. The Active Line Plus has already won the Red Dot Design Award.

Technical details on page 74
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 25 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.

Visiting friends, enjoying nature and fresh air or running errands – the Active Line Plus supports you on all your trips. A harmoniously 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 optimised 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.
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 25 km/h with the Drive Unit Performance Cruise or up to 45km/h with the Speed variant. Rely on the desired power at the right moment. Experience the flow of the Performance Line.

#FeelTheFlow
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 25 km/h with the Performance Cruise drive unit or up to 45 km/h with the Speed variant.

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

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 behaviour, 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, while the automatic hub gear system from enviolo or Rohloff provides support up to 45 km/h.
- S-Pedelec: The Performance Line Speed variant provides support with speeds up to 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.

Performance Line

At a glance

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.
- Sporty dynamic support in two variants: Cruise (25 km/h) and Speed (45 km/h).

Ranges for Performance Line Cruise

<table>
<thead>
<tr>
<th>Batteries</th>
<th>350</th>
<th>450</th>
<th>550</th>
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Average of combined use of all four modes and favourable conditions.

Ranges for Performance Line Speed

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<th>Batteries</th>
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Technical details on page 74

A dynamic characteristic curve from the Cruise and Speed Performance Lines produces a more sporty riding performance.
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. The Bosch eBike ABS also ensures that safety comes first: the anti-lock braking system optimises riding stability, under slippery road conditions, allows the front brake to work more effectively and reduces the risk of being thrown over the handlebars when braking. A perfectly coordinated system – for more riding enjoyment and greater safety.

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. Enjoy an unlimited eBike experience with the fully networked Nyon on-board computer.

WATCH THE VIDEO AT bosch-ebike.com/munich
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 behaviour 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

The superlative among drive units

One step on the pedal and the power kicks in. Achieve a perfect symbiosis with your eBike. The judiciously delivered 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.

The facts

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

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 25 km/hr. Does not overheat even on long mountain trips.

Performance Line CX Highlights

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

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 behaviour 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 behaviour as soon as you step onto the pedals.
▶ Improved dynamics: Enables effortless riding on technical uphill sections or over obstacles.
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 optimised 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.

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 optimised 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 for new directions. The eMountain bike enables us to push our boundaries and discover the strength inside us. We can achieve the seemingly impossible, acting intuitively and with a sense of fun, so that a completely new riding sensation is experienced on uphill stretches: uphill flow.

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

Stefan Sehlie
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 variants) 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.

onviolo
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.

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

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 pedelecs up to 45 km/h

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.

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.

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.

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.

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 Di2

Hub gear system
Defined gears
Cruise

NuVinci Optimized™
enviolo Automatic+

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.

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.

onviolo

Adjustable cadence from 30 to 100 revolutions per minute
Gear system: stepless
Also suitable for speed pedelecs up to 45 km/h

Derailleur system
Defined gears
Cruise

E-14 Speedhub 500/14

Hub gear system
Variable gear ratio
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.

onviolo

NuVinci Optimized™
enviolo Automatic+

Hub gear system
Variable gear ratio
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.

onviolo

NuVinci Optimized™
enviolo Automatic+

Hub gear system
Variable gear ratio
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.
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-optimised route calculation, Purion provides a swift overview that reduces all information to the essentials. The Intuvia is an easy-to-operate control centre. The new sporty compact Kiox on-board computer will stick with you through thick and thin. Finally, Nyon is the fully networked ecosystem on your handlebar.
**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 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, Purion continues to display all the most important information.

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

---

**Purion**

Compact purist

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 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.
Kiox offers all the functions that a sporty rider could need. The small, scratch-resistant colour 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.

**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 colour 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.

**The facts**

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Nyon
Connect your Way

Always connected
Nyon forms part of an intelligent system. Connected to Bluetooth and Wi-Fi, the intelligent on-board computer synchronises with the ebike Connect smartphone app and the ebike-connect.com online portal to create the ideal conditions for a networked ebike experience: Nyon provides many individual options for route planning, the actual journey and evaluation of your activities, such as creating your own individual ebike profile.

Intuitive route changes
Simply use drag & drop to change your route in the portal and define new way points as well as starting points and destinations.

Route planning
By navigating with the joystick on the map, you can explore your environment quickly and easily, finding your way about more efficiently.

Digital keyboard
The destination input via the new digital keypad makes it easier to enter the four destinations or stopovers.

Energy consumption
Detailed information about the use of the batteries for reliable route planning.

DualBattery display
When DualBattery is used, the charging status of both batteries will be shown on the display.

Altitude difference display on the navigation screen
Preview of the altitude difference on your route helps you to use your strength and the support of the Bosch system optimally.

Nyon is more than just an on-board computer for eBikes. Nyon offers next-generation eBike connectivity in conjunction with the online portal and app. With new map material, features for route planning, altimeter preview, and an improved display of the rider’s performance, Nyon is once again the front runner among eBike on-board computers.

eBike Connect smartphone app
Connect Nyon to your smartphone via Bluetooth with the ebike Connect App. You can modify settings, transfer routes or use additional premium functions for your own personal, networked interactive ebike experience.

eBike Connect online portal
You have all relevant information in view on your tablet or PC in the eBike Connect online portal. Data is transferred easily between the portal and Nyon via Wi-Fi. Direct link: ebike-connect.com
**Ride**

**Motor support when required**
Sporty or relaxed – select one of five different riding modes to suit your own individual motor support requirements. You can adapt riding modes individually using an additional premium function.

**Clear overview**
Whether time, speed, shift recommendation, range, or battery charge level – Nyon shows you all the most important information at a glance.

**Personalised user interface**
The Nyon user interface makes your Nyon even easier to personalise. Define your own personal cockpit by choosing from almost 30 different options and three suggested designs.

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**Navigation**

**Convenient route planning**
Plan your own routes using the portal with Nyon or the eBike Connect app or upload routes as GPX tracks to the eBike Connect online portal. The next instruction is indicated on the navigation screen by means of the turn arrow.

**Select route profiles**
You can choose between the fastest route, most picturesque route or a route for eMountain bikers, predominantly along dirt tracks. Alternatively, the shortest route can be calculated for S-Pedelecs.

**Stopovers**
Discover the most beautiful places along the route and include a maximum of eight stopovers when planning your eBike tours in the portal.

**Storage space**
The 8 GB memory provides sufficient space for storing maps. However, you can continue navigating with a full memory: simply stream the required maps to the Nyon from your smartphone via Bluetooth.

**Shortcuts**
In addition to a home address, a “Take me to work” function is also available – after saving an address at ebike-connect.com or on the app, you can navigate with Nyon using this shortcut.

**Select route profiles**
You can choose between the fastest route, most picturesque route or a route for eMountain bikers, predominantly along dirt tracks. Alternatively, the shortest route can be calculated for S-Pedelecs.

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**Smartphone function**

**Personalised settings**
For example, you can enter ride destinations via the eBike Connect App or change the screen design as you wish. Attractive premium functions allow you personalise your eBike assistant in even more detail: purchase the premium function to modify riding modes or the topographical range.

**Charging station for external devices**
The micro USB interface is not only useful for diagnosis by your specialist dealer, but also for charging external devices such as smartphones.

**Messaging service**
When the Nyon receives a new SMS a pop-up notification appears on the display – so you can stay informed without having to remove your hands from the handlebars to look at your phone. During a brief stop, you can then read and reply to new messages and reach your destination safely.

**Online evaluation with eBike Connect**
Visit the ebike-connect.com portal to see how effectively you have been training. The portal gives you a perfect overview of your current fitness and training level.

---

**Fitness**

**Training function**
Regardless of whether you are training for a competition or whether you are a health-conscious and active recreational athlete: Nyon provides all the relevant data in real time to motivate you while riding.

**Fitness check**
Nyon measures your pedal force and cadence to calculate how much power you generate and how much energy you burn. You can use a heart rate chest strap to obtain even more accurate values.

**Online evaluation with eBike Connect**
Visit the eBike-connect.com portal to see how effectively you have been training. The portal gives you a perfect overview of your current fitness and training level.
The COBI.Bike system connects your eBike to your digital world: whether music streaming, fitness tracking, bike navigation or phoning with Bluetooth headphones. It's all possible – on the move. With the weatherproof COBI.Bike hub, your smartphone finally gets a place of its own and is supplied with power. Perfectly positioned and securely held in place – operated via the control unit on the handlebar.

The intelligent smartphone cockpit

- Plug & play: Disconnect the Bosch display and connect the COBI.Bike system
- Operation via Bosch control unit
- Motor control even without smartphone
- Mobile phone charging function from main battery
- Available lighting system controllable
- Integrated alarm system and bell
- Networking with apps such as komoot, Strava, Spotify and Apple Health
- Fitness monitoring and tracking
- Voice output (also via headphones)
- Live residual range warning
- Regular software updates

Award-winning design and regular updates

Regular updates expand the system functions. The feedback from users plays an important role here. The app is specially designed for cycling. It reduces all information to the essentials and provides a perfect overview. This allows you to fully concentrate on your cycling as well as enjoying and safely operating a variety of applications such as music streaming services and fitness functions.

Further information at: www.cobi.bike/bosch
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. 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.
The Bosch PowerPack 500 is the same size as and only slightly heavier than the PowerPack 400 but extends the range. The Fast Charger only needs a little more than an hour to charge to 50%, while the high-performance PowerTube 500 or PowerPack 500 are fully charged after only three hours. The PowerPack 300 and the PowerPack 400 provide 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 centre 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 300 and the PowerPack 400 are among the lightest batteries in their class on the market.

**PowerPack 300**
- Voltage: 36 V
- Capacity: 8.2 Ah
- Energy content: approx. 300 Wh
- Weight: Frame battery approx. 2.6 kg, rack battery approx. 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. 0.7 h, full charge approx. 2 h

**PowerPack 400**
- Voltage: 36 V
- Capacity: 11.0 Ah
- Energy content: approx. 400 Wh
- Weight: Frame battery approx. 2.5 kg, rack battery approx. 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 h, full charge approx. 2.5 h

**PowerPack 500**
- Voltage: 36 V
- Capacity: 13.4 Ah
- Energy content: approx. 500 Wh
- Weight: Frame battery approx. 2.5 kg, rack battery approx. 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. 1.2 h, full charge approx. 3 h

*Charging times with the Fast Charger
PowerTube 500
Power by design

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 minimalist 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. 2.8 kg
- Dimensions: 349 x 84 x 65 mm
- Charging time*: 50% charge approx. 1.2 h, full charge approx. 3 h
- *Charging times with the Fast Charger

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 Power Tubes, two Power Packs 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.

* DualBattery is not available in combination with a PowerPack 300.
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, 4A Standard Charger or new 6A Fast Charger, Bosch has developed three 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.

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. The Compact Charger can be used with supply voltages of 110 to 230 volts and can also be used in the US and Canada as well as Australia.

Standard Charger
The robust, functional 4A Standard Charger is the all-rounder among Bosch chargers. It offers the ideal balance between performance, weight and size and is extremely versatile.

Fast Charger
The Fast Charger is currently the fastest eBike charger in its class and will recharge the eBike battery in the shortest possible time. After just 3 hours, the powerful PowerTube 500 or PowerPack 500 are fully recharged. The Fast Charger needs just over 1 hour to charge a battery to 50 % capacity. This makes it the perfect charger for fast recharging while on a trip. The Fast Charger is ideal for eBikes that are much in use and frequently charged.

A Comparison of the Charging Times of the Charger Models:

<table>
<thead>
<tr>
<th>Charger Model</th>
<th>50% Charge</th>
<th>100% Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bosch rechargeable battery</td>
<td>2 h</td>
<td>4.5 h</td>
</tr>
<tr>
<td>PowerTube 500</td>
<td>2.5 h</td>
<td>3 h</td>
</tr>
<tr>
<td>PowerPack 500</td>
<td>3 h</td>
<td>2.5 h</td>
</tr>
<tr>
<td>PowerPack 400</td>
<td>6 h</td>
<td>2.4 h</td>
</tr>
<tr>
<td>PowerPack 300</td>
<td>2.4 h</td>
<td>6 h</td>
</tr>
</tbody>
</table>

*The charging current in PowerPack 300 and rechargeable batteries of the Classic + Line is limited to 4 A.
Bosch eBike ABS

REINVENTING SAFETY

More than just technology: with the intelligent Bosch eBike ABS, Bosch is launching the first standard anti-lock braking system for pedelecs on the market, perfecting that carefree feeling when you’re on the move. Bosch has been an expert in ABS systems and a market leader in motorbike safety systems for over 40 years. The eBike ABS was developed using the already established motorcycle ABS. This once again underlines Bosch’s expertise and pioneering role in the field of two-wheeled ABS and uses technology to create a confident riding sensation.

VISIT THE WEBSITE
bosch-ebike.com/abs

SEE ABS FLYER
Bosch eBike ABS
Greater safety, improved stability

Modern and powerful braking systems have optimised braking behaviour and braking distance. The first standard anti-lock braking system for eBikes is the logical consequence of this development.

Your safety advantages:
▶ This allows you to use the front brake more actively and efficiently.
▶ Optimised riding stability and manageability of your eBike during braking, especially under slippery road conditions.
▶ When the front wheel brake is applied forcefully, the rear wheel lift control reduces the chances of being thrown over the handlebar.

Front-wheel ABS
Wheel speed sensors monitor the speed of both wheels. The Bosch eBike ABS regulates the brake pressure if the front wheel is blocked when the brake is applied too forcefully, thus optimising the riding stability and steerability of the eBike – especially under slippery road conditions. Harmonious and sensitive braking behaviour significantly increases control, stability and safety.

Rear wheel lift control
The rear wheel lift control of Bosch eBike ABS reduces the chances of the rear wheel lifting from the ground. The Bosch eBike ABS is especially effective when the front wheel brake is applied very forcefully, especially on a high-grip surface. This intelligent rear wheel lift control reduces the possibility of the rider being thrown over the handlebars. This enables you to use the front brake more actively and efficiently.
Safety comes first!
Minimising 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 safety. 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: Inadequate protection

Only 60% of eBike users wear protective headgear while biking (up to 25 km/h).

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

In-mould helmets offer good protection. During manufacturing, the shock-absorbing hard foam is injected directly into the outer shell.

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: Sudden braking in traffic
Whether due to slippery roads or unexpected traffic situations, riders who have to brake sharply can quickly lose control.

The Bosch eBike ABS is the first standard anti-lock braking system for pedelecs. The front wheel ABS optimises the riding stability and manageability of the eBike during braking.

Solution:
Bosch eBike Systems argues 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.

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 pedelec.

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

Bosch batteries are among the most efficient on the market. Ranges of more than 150 kilometres 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.

Solution:
Bosch batteries are among the most efficient on the market. Ranges of more than 150 kilometres are possible with a single battery charge.

Risk: Incorrect starting
Incorrect starting is a common cause of error that can have dangerous consequences.

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

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:
Some eBike systems offer the rider the possibility of automatically shifting to a lower gear when the rider is feeling unsteady or when the system detects a steep incline.

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 pedelec.

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

Risk: Inadequate protection

Only 60% of eBike users wear protective headgear while biking (up to 25 km/h).

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.

Source:

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

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

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.

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.

Solution:
The Bosch eBike ABS is the first standard anti-lock braking system for pedelecs. The front wheel ABS optimises the riding stability and manageability of the eBike during braking.

Solution:
The Bosch eBike ABS is the first standard anti-lock braking system for pedelecs. The front wheel ABS optimises the riding stability and manageability of the eBike during braking.

Solution:
Seeking safety is easy for everyone. Bosch eBike Systems provides innovative and inspiring mobility solutions. For people who want to get around in relaxation, sustainably and above all safety. For people who enjoy cycling.
REGULAR SERVICING FOR WORRY-FREE CYCLING

Service is more than a promise. It’s an attitude. Because we at 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-round checks: Enjoy that special riding sensation – and leave the rest to us.
Bullet point 1: Bosch eBike Systems provides extensive and reliable aftersales service for your eBike. Many of your products can be retrofitted - so that your eBike system is always equipped with the components you want.

- On-board computers: Some of our on-board computers are available as retrofit kits. Make a switch – for example from Intuvia to Nyon.
- 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, Standard and Fast Chargers are available from dealers.

Diagnostic Tool
The Diagnostic Tool, 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 rendering the warranty or the CE mark void. For technical reasons, the Bosch eBike system is not available as a retrofit kit. A specialist dealer performs a check to determine the energy content 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.

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 Pedelecs. More than 70 well-known bicycle brands already use eBike systems with the “powered by Bosch” quality seal.
- Which bike brands offer the Bosch eBike system?
  You can find an overview of manufacturers that develop eBikes sponsored by Bosch here: bosch-ebike.com/brands.
- Is a dealer directory available?
  Our dealer search provides details of all bicycle retailers who sell eBikes sponsored by Bosch. You can find an overview of all retailers who sell eBikes sponsored by Bosch here: bosch-ebike.com/dealers.
- Which system variants does Bosch offer?
  Bosch eBike Systems currently offers four product lines: The elegant Active Line, the high-performance Active Plus Line, the sporty Performance Line and the powerful Performance Line CX designed especially for eMountain biking. The Active and Active Plus drive units support up to 25 km/h and are also available with an optional backpedal function. The drive unit for the Performance Line is available in the Cruise (up to 25 km/h) and Speed (up to 45 km/h) variants.
- Is tuning allowed?
  No, tuning is not permitted. Using a tuning kit or manipulating your Bosch eBike system in any other way will void invalidating your guarantee and any warranty entitlements for the purchased bike. As a general rule, using the system improperly will result in wear and tear and increasing 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 any 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?
  “I’d like to purchase a used eBike. The previous owner said that he made a “few adjustments” to the Bosch eBike system. Can I use it?”
  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 can be retrofitted only by special expert knowledge to repair. A defective battery must always be replaced and then tested by our service specialists. Opening or having a clutch open can be dangerous. Repairing our batteries unprofessionally can lead to fundamental impairments and even physical 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.
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- 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?”
  Our charger is adapted specifically to the Bosch eBike system and has the right charging and managing the Bosch battery efficiently. Using different chargers and providers 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.
- 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 tested by our service specialists. Opening or having a clutch open can be dangerous. Repairing our batteries unprofessionally can lead to fundamental impairments and even physical 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.
- What warranty periods apply to the Bosch eBike system?
  “I’d like to purchase a used eBike. The previous owner said that he made a “few adjustments” to the Bosch eBike system. Can I use it?”
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### Technical Details Drive Units

<table>
<thead>
<tr>
<th>Gear Type</th>
<th>Active Line</th>
<th>Active Line Plus</th>
<th>Performance Line</th>
<th>Performance Line Speed</th>
<th>Performance Line CX</th>
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<tbody>
<tr>
<td>Power</td>
<td>250 W</td>
<td>250 W</td>
<td>250 W</td>
<td>250 W</td>
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<tr>
<td>Support level</td>
<td></td>
<td></td>
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<tr>
<td>Voltage</td>
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<td>36 V</td>
<td>36 V</td>
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<tr>
<td>Capacity</td>
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<td>13.4 Ah</td>
<td>13.4 Ah</td>
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<tr>
<td>Weight, approx.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear type</td>
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<td>Cassette 25 km/h</td>
<td>Cassette 25 km/h</td>
<td>Cassette 45 km/h</td>
<td>Cassette 25 km/h</td>
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<tr>
<td>Hub gear system</td>
<td></td>
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</table>

### Technical Details Batteries

<table>
<thead>
<tr>
<th>PowerPack 500</th>
<th>PowerPack 600</th>
<th>PowerPack 900</th>
<th>PowerTube 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging time</td>
<td>5.5 h</td>
<td>5.9 h</td>
<td>6.5 h</td>
</tr>
<tr>
<td>Power</td>
<td>500 W</td>
<td>500 W</td>
<td>500 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>36 V</td>
<td>36 V</td>
<td>36 V</td>
</tr>
<tr>
<td>Capacity</td>
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<td>11.0 Ah</td>
<td>14.5 Ah</td>
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<tr>
<td>Weight, approx.</td>
<td>2.8 kg</td>
<td>2.4 kg</td>
<td>3.0 kg</td>
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</table>

### Technical Details Bosch eBike ABS

- **Functionality**
  - Anti-lock function on the front wheel, enhanced riding stability and control
  - Rear wheel lift control: reduced risk of being thrown over the handlebar in critical braking situations
  - More efficient braking through optimized use of the front wheel brake in braking situations
  - **Area of application**
    - 25 km/h and 45 km/h
    - 25 km/h braking and chily urban
  - **Brakes**
    - Magura CABLE hydraulic disc brakes
  - **Total weight**
    - Approx. 800 grams

### Technical Details Charger

- **Hardware facts**
  - **Charging current**
    - Max. 2 A
    - Max. 4 A
    - Max. 6 A
  - **Voltage**
    - 100–240 V
  - **Size approx.**
    - 160 × 75 × 45 mm
    - 150 × 88 × 54 mm
    - 200 × 50 × 10 mm
  - **Plug**
    - Country-specific power plug
  - **Compatibility**
    - Active Line / Active Line Plus / Performance Line / PowerPack 300 / PowerPack 400 / PowerPack 500 /
  - **Charging time**
    - 5.5 h
    - 6.5 h
    - 6.5 h
  - **Power**
    - 500 W

### Technical Details Nyon

- **Charging current**
  - Max. 2 A
  - Max. 4 A
  - Max. 6 A
  - **Voltage**
    - 100–240 V
  - **Size approx.**
    - 160 × 75 × 45 mm
    - 150 × 88 × 54 mm
    - 200 × 50 × 10 mm
  - **Plug**
    - Country-specific power plug
  - **Compatibility**
    - Active Line / Active Line Plus / Performance Line / PowerPack 300 / PowerPack 400 / PowerPack 500 /

### Technical Details Kiox

- **Charging current**
  - Max. 2 A
  - Max. 4 A
  - Max. 6 A
  - **Voltage**
    - 100–240 V
  - **Size approx.**
    - 160 × 75 × 45 mm
    - 150 × 88 × 54 mm
    - 200 × 50 × 10 mm
  - **Plug**
    - Country-specific power plug
  - **Compatibility**
    - Active Line / Active Line Plus / Performance Line / PowerPack 300 / PowerPack 400 / PowerPack 500 /

### Hardware facts

- Transforms a 3-inch TFT display colour (ABD + 272 pixels, 16 million colours, 95 × 53 mm active area)
- 8 GB storage capacity
- Easy way to save and transfer photos of the Nyon on board computer and the separate control unit
- 3 buttons for switching on/off, light and horns
- Walk Assistant button on the separate control unit
- Integrated high precision GPS module
- Integrated compass and high resolution barometric pressure sensor
- Ambient light sensor automatically controls the brightness of the display day and night
- Integrated battery delivers power for approx. one hour in off-board mode, in-board it is charged via the eBike battery
- Rugged and IPx7 waterproof when the USB cap is closed
- Temperature range: −5 °C to +40 °C (operating) and −10 °C to +50 °C (storage)

### Connectivty facts

- Mobile connectivity for direct and convenient synchronization (Activity sync., map update, software update) via your router or other access points
- Smartphone app for compatible smartphones: Android (at least 4.3.3), iPhone (at least 5, iOS, 400 CPX phone version 8
- Online portal (dashboard, activities, route planning)
- Bluetooth connectivity to compatible smartphones
- Bluetooth connectivity (Bluetooth 4.0) for heart rate chest straps
- Micro USB port for diagnostics by your dealer, for changing the Nyon battery and for charging external devices such as MP3 players and compatible smartphones

### Nyon

- **Functionality**
  - Anti-lock function on the front wheel, enhanced riding stability and control
  - Rear wheel lift control: reduced risk of being thrown over the handlebars in critical braking situations
  - More efficient braking through optimized use of the front wheel brake in braking situations
  - **Area of application**
    - 25 km/h and 45 km/h
    - 25 km/h braking and chily urban
  - **Brakes**
    - Magura CABLE hydraulic disc brakes
  - **Total weight**
    - Approx. 800 grams
  - **Miscellaneous**
    - 12 V power supply via the Bosch eBike System
    - A/B/C light for quick recognition of ABS status (active/yes/no)

### Kiox

- **Functionality**
  - Anti-lock function on the front wheel, enhanced riding stability and control
  - Rear wheel lift control: reduced risk of being thrown over the handlebars in critical braking situations
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  - **Total weight**
    - Approx. 800 grams
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    - 12 V power supply via the Bosch eBike System
    - A/B/C light for quick recognition of ABS status (active/yes/no)