

Products 2021



BOSCH

Invented for life

CONNECTING TO NEW ADVENTURES

FEEL THE FLOW

Bosch eBike Systems | EN
bosch-ebike.com



Product innovations 2021

For even more flow

NEW

The eBike is more than just another mode of transportation. There's a new approach to living and mobility that offers you ease and enjoyment in physical activity, allowing you stay fit in complete relaxation. eBikes powered by Bosch means: new products and functions for an even smarter connection to the digital world, next level eMountain biking, greater safety and efficient mobility in the city.

#FeelTheFlow



More torque

Increased performance for Cargo, Cargo Speed, Performance Speed and Performance CX Drive Units: The drives will provide support with a maximum torque of up to 85 Nm from model year 2021 onwards.



Kiox

The new navigation function of the Kiox on-board computer supports sporty riders as they explore unfamiliar areas. Kiox uses the eBike Connect smartphone app to offer eBikers access to the digital world.



reddot winner 2020

Nyon

The new Nyon paves the way for a fully connected eBike experience: The on-board computer with the 3.2-inch high-resolution colour display has a touchscreen for intuitive operation and is connected to the digital world via the eBike Connect smartphone app and the ebike-connect.com online portal.



Help Connect

The COBI.Bike smartphone app and the new Help Connect premium function give eBikers an alert, digital companion that can be relied upon to provide fast assistance if it detects that the rider may have had an accident.



Performance Line CX

From model year 2021 onwards, the Performance Line CX will offer even more fun on the trail: With a maximum torque of 85 Nm, further development of eMTB mode and the new Extended Boost, the riding experience feels more natural, more intuitive and even more powerful.



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THE eBIKE GIVES US OUR DRIVE



There are plenty of reasons for choosing an eBike system from Bosch.
But there's only one way to experience what 'epowered by Bosch' really means:
climb on, start pedalling and ... experience the flow.

BOSCH eBIKE SYSTEMS STANDS FOR...

... A PERFECTLY COORDINATED SYSTEM

Drive unit, battery and display are designed as a single system and interact seamlessly. This results in maximum efficiency and comfort – and a unique riding sensation.

... INDIVIDUAL COMBINATION OPTIONS

With a modular product portfolio, Bosch offers eBikers the ideal drive system for every requirement. Whether for use in the city on the trail, on tour or for transporting heavy goods: a variety of possible combinations of drive units, batteries and displays ensures an outstanding riding sensation.

... INNOVATIVE SOLUTIONS

From the first series-ready ABS for eBikes to the first fully networked on-board computer in the bicycle industry and the dynamic Performance Line CX: we develop solutions to promote the mobility of our customers.

... CONNECTED BIKING

You can add a digital dimension to eBiking with our connected products for an even more comfortable, richer and more individual experience.

... MAXIMUM RELIABILITY

Our products stand for maximum quality and reliability. Our drive systems inspire people and offer technology "invented for life". Just what you'd expect of a product from Bosch.

... A COMPREHENSIVE RANGE OF SERVICES

Any product is only as good as its service. Bosch eBike Systems trains retailers to become eBike specialists through intensive training courses. For satisfied customers and long-lasting riding enjoyment.

... A LARGE SELECTION OF MANUFACTURERS

More than 70 renowned bicycle brands worldwide trust in products that are "epowered by Bosch" and install our drive systems in their bicycles. Everyone is sure to find the right eBike for their needs.



VISIT THE WEBSITE
bosch-ebike.com/reasons-bosch



The Bosch eBike system

A perfect team

Plenty of riding enjoyment: The drive units, displays and batteries of Bosch eBike Systems offer outstanding quality and form a precisely tuned system with maximum efficiency, safety and comfort. For a unique riding sensation.

Drive units

Power for the flow: The Bosch drive units are available in Active, Active Plus, Cargo, Performance and Performance CX variants. The Cargo Line and Performance Line are also available in a Speed variant that delivers support up to 45 km/h. Perfect for a relaxed ride through the city, carrying heavy loads, excursions into the countryside or in alpine terrain. The correct drive unit transforms every ride into a thrilling eBike experience: Smooth or powerful support that always feels completely natural.



Active Line



Active Line Plus



Cargo Line/Cargo Line Speed



Performance Line/Performance Line Speed



Performance Line CX

Batteries and chargers

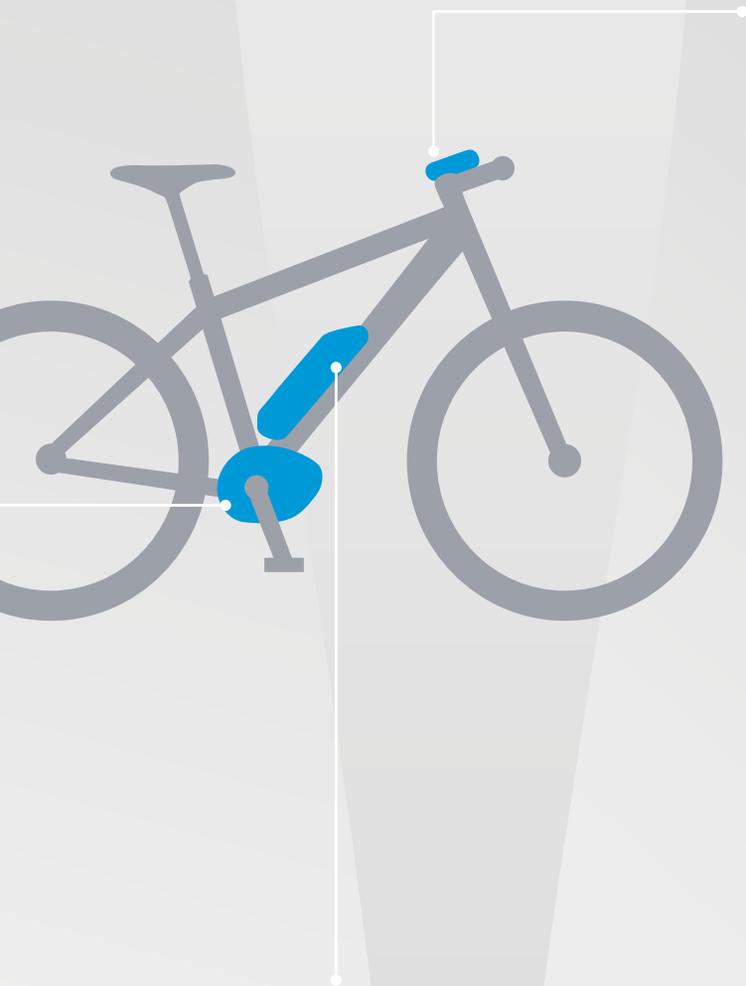
Packed with power: Bosch batteries act as the powerhouse behind leisurely rides through the city, the daily commute to work or when tackling challenging trails. They impress with their high energy density, great mileage, long service life, light weight and easy handling. Bosch chargers ensure batteries are quickly ready for use again.



PowerPack 300/400/500



PowerTube 400/500/625



Displays



Intelligence on the handlebar: Six eBike displays offer a reliable companion for every requirement – from the minimalist display with an eye for the essentials to the all-in-one on-board computer with navigation functions and eBike control via smartphone.



Purion



Intuvia



Kiox

NEW



Nyon



reddot winner 2020



SmartphoneHub



COBI.Bike



DualBattery 1000/1250

▼ Standard Charger



Compact Charger ▲



Fast Charger ▲



Drive units 

POWER FOR THE FLOW

FEEL THE FLOW

The demands placed on drive units are as varied as their users. That's exactly why Bosch eBike Systems doesn't have a one-size-fits-all drive, but rather the right drive for every need: whether as an environmentally friendly alternative in the city, for transport, for a fun activity or for the challenge of mountainous terrain.



Drive units

At a glance



City



Suburban

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.



Active Line



Active Line Plus



Cargo Line

Cargo Line Speed



Performance Line Speed

Riding modes at a glance

- Eco** Effective support with maximum efficiency for maximum range.
- Tour** Uniform support for long range rides.
- Sport** Powerful support for universal usage for both sporty riding as well as fast commuting in city traffic.
- eMTB*** Progressive support for a natural riding sensation and optimal control on demanding terrain.



Tours

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



Mountains

Very sporty riding in challenging terrain on unpaved trails.



65 Nm

300%

25 km/h
Cruise



Performance Line



85 Nm

340%

25 km/h
Cruise

Performance Line CX

 **Turbo** Direct, maximum power support up to the highest cadences for sporty riding.

 **Off** No support, all display functions are available.

 **Active walking assistance** The displays are used to activate the well-controlled support up to 6 km/h. For the greatest possible safety, walk assistance is activated in two stages.

* Depending on the eBike type, the eMTB mode replaces the Sport mode in the Performance Line and the Performance Line CX.

Active Line 

TAKING THE PULSE OF THE CITY

FEEL THE FLOW

Whether you need to get to work in the morning or to a restaurant in the evening: Active Line brings the joy back to urban mobility - even in rush hour. Their quiet, well-modulated delivery of acceleration and smooth pedalling action even over 25 km/h or in off-mode make every ride an experience. A recipient of the Red Dot Design Award, the drive unit fits seamlessly inside the bicycle frame for an elegantly attractive look.

#FeelTheFlow #streetflow





Active Line

At a glance



reddot award 2017
winner



An elegant companion

Experience a relaxed and safe riding sensation with smoothly delivered support from the quiet Active Line. With up to 40 Nm up to a maximum of 25 km/h. Pedalling remains smooth and easy even above this speed or when switched off. In addition, weighing only 2.9 kg, the drive unit offers simple and agile handling of the eBike. Relaxed riding enjoyment and maximum comfort.

- ▶ Modulated power delivery for relaxed everyday rides and short excursions.
- ▶ An elegant drive unit that offers new flexibility for everyday and occasional riders.

Active Line



Maximum torque

For controlled acceleration.



Maximum support

Gentle drive, perfect for city trips.



Drive unit

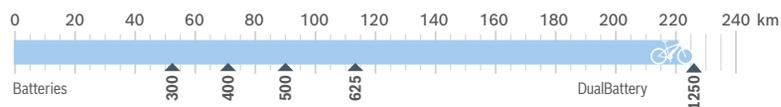
Smooth delivery of support up to a maximum of 25 km/h.



Backpedal function

The Active Line is also available with a backpedal function.

Range



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

Highlights

- ▶ Quiet cruising: the quiet Bosch motor provides even more riding enjoyment without annoying extraneous noises.
- ▶ Carefree cruising: Thanks to the innovative drive concept, the drive unit weighs just 2.9 kg.
- ▶ Smart riding experience: The controlled acceleration with smooth pedalling action even when switched off or at over 25 km/h ensures a natural riding sensation.
- ▶ Clean eBike look: Thanks to its compact size, the Active Drive Unit allows ideal integration within the bicycle frame.
- ▶ Relaxation on tour: The multi-sensor concept drive unit takes more than 1,000 measurements per second to ensure smoothly delivered power characteristics. The optional backpedal function helps make braking more comfortable.
- ▶ Award-winning design: The flowing shapes and a pleasing linear design set new standards. The Active Line Plus has won the Red Dot Design Award.



Active Line + Purion + PowerPack 300

The relaxed way to get
from A to B



Comfort on all trips: The Active Line delivers moderate support while providing a particularly enjoyable riding sensation. It is the smooth-running, smart drive for anyone who enjoys riding on paved roads or bike trails and wants to have carefree everyday excursions. The low weight of the drive unit makes the eBike lighter overall. The Purion on-board computer gives eBikers all the essential information at a click of the thumb. Both hands remain safely on the handlebar. The PowerPack 300 is the ideal light-weight companion for short trips around the city. A drive system for urban adventurers who want effortless, individual mobility.



Active Line + COBI.Bike + PowerTube 400

City connections



The flexible way to get around town, arriving fresh and relaxed: The Active Line makes a trip to a café or a dinner date at a restaurant easy and stress-free. The drive is the ideal choice for city trips, thanks to well-judged acceleration and smooth pedalling action even over 25 km/h. The design blends seamlessly with the bicycle frame and the light weight of the drive makes for easy handling. The COBI.Bike smartphone app provides a smart connection between eBikers and the city: connected app services, route tracking or weather forecasts. The COBI.Bike app can be controlled easily and comfortably using the control unit on the handlebar with optional voice output support. The PowerTube 400 integrated within the frame makes the stylish city bike a real eye-catcher. This is how to experience urban mobility – always in flow with the city.



Active
Line



Active Line Plus  |  

FOR EVERYDAY ADVENTURES

FEEL THE FLOW

The thirst for new adventures knows no bounds – even in the city. Active Line Plus brings mobility to everyday life and extends your options for spontaneous excursions. Quiet yet powerful, the drive unit offers a major advantage in riding enjoyment. It allows agile handling and fits perfectly inside the frame of the eBike. No annoying background noise, smooth pedalling action even over 25 km/h – it is so easy to experience the thrill of exploration.

#FeelTheFlow





Active Line Plus

At a glance



reddot award 2017
winner



The drive unit for explorers

Discover new places and give in to the charms of the great unknown. The especially compact and quiet Active Line Plus Drive Unit for eBikes has been designed for little adventures like this, offering smooth pedalling action even over 25 km/h or in Off mode. Powerful 50 Nm supports the rider on voyages of discovery. An intelligent multi-sensor concept that records data more than 1,000 times per second is responsible for the smooth riding sensation. The drive unit sits elegantly inside the bicycle frame. Giving you noticeably more enjoyment from eBiking.

- ▶ Optimal support for an excursion - including beyond city limits.
- ▶ The quiet, compact yet powerful drive unit offers a major advantage in riding enjoyment.

Active Line Plus



Maximum torque

For well-controlled acceleration.



Maximum support

The versatile solution for city trips and light touring.



Drive unit

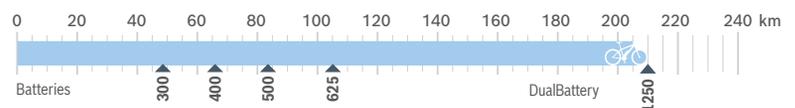
Perfect delivery of support up to a maximum of 25 km/h.



Backpedal function

The Active Line Plus is also available with a backpedal function.

Range



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

Highlights

- ▶ Natural riding sensation: The controlled acceleration offers an authentic riding experience - smooth pedalling action even over 25 km/h or in 'Off' mode.
- ▶ Pure riding enjoyment: The Bosch motor is extremely quiet and reliable, enabling you to concentrate on the essentials.
- ▶ Pleasant delivery of power: The Active Line Plus delivers a comfortable riding sensation in all situations and supports a torque of up to 50 Nm.
- ▶ Modern eBike look: The drive unit can be integrated beautifully into the bicycle frame, lending the eBike an elegant appearance.
- ▶ Outstanding support: The intelligent multi-sensor concept ensures optimum power delivery, while the optional backpedal function provides comfortable braking.
- ▶ Award-winning design: The flowing shapes and pleasing linear design of the Active Line Plus received a Red Dot Design Award.



The Active Line Plus is also available with a backpedal function.

Active Line Plus + SmartphoneHub + Help Connect* + PowerTube 400

Elegant support



Discover new places, even beyond the city boundaries: The quiet and compact Active Line Plus delivers an enjoyable riding sensation in all situations and supports with a torque of up to 50 Nm. The SmartphoneHub keeps the eBiker fully networked through the use of a smartphone and the COBI.Bike app, offering a host of practical functions – from navigation, music streaming and fitness tracking to the integration of apps such as Strava or komoot. The new Help Connect premium function provides fast assistance if it detects an accident. The PowerTube 400 can be integrated in the bicycle frame to create a clean look for the eBike. The smarter, safer and more stylish way for explorers to get around.

* Help Connect is currently only available for users with German SIM cards and the service is in German and English. It is available in eleven countries: Germany, Austria, Switzerland, France, Belgium, Netherlands, Luxembourg, Great Britain, Ireland, Italy and Spain.



Active Line Plus + Intuvia + ABS + PowerTube 500

Even more options



Whether you're in the town or country – be one step ahead at all times: Active Line Plus brings mobility to everyday life and extends your boundaries for excursions to the surrounding areas. The quiet yet powerful drive unit offers a significant advantage in terms of riding enjoyment with smooth pedalling action even over 25 km/h. The Bosch eBike ABS delivers greater safety: the anti-lock braking system optimises riding stability, especially in slippery conditions. The front brake can be used more efficiently and so the risk of an accident is reduced. Intuvia gives the eBiker optimised ease of use. Handling is intuitive and the display can be operated conveniently using a separate control unit whilst riding. The PowerTube 500 ensures a sufficient supply of energy. City trips and spontaneous excursions can be enjoyed in a safe and relaxed way.



Active
LinePlus



Cargo Line  |  | 

FOR TRANSPORTING HEAVY GOODS

FEEL THE FLOW

From making deliveries to customers to picking up the kids from kindergarten or doing the shopping, the Cargo Line, which is designed specially for cargo bikes, makes transport easy. It is available in two versions – with support up to 25 km/h or, as Cargo Speed, up to 45 km/h. There is a software update for both variants in the 2021 model year: In addition to a stronger torque of a maximum of 85 Nm, cargo bikers will benefit from even more powerful support and more thrust when starting off or accelerating in low cadences. This makes everyday transport more relaxed and ensures maximum riding enjoyment on delivery rounds.

#FeelTheFlow #streetflow

NEW

with up to
85 Nm

Cargo
Line





Cargo Line

At a glance



Transport made easy

Specially for cargo eBikes: With a maximum torque of 85 Nm and up to 400% support, the Cargo Line is the ideal drive for transporting heavy goods. The rider receives the required support always at the right moment. The efficient motors maximise the range, ensuring riders reach their destinations, even when carrying a full load.

- ▶ The easy and comfortable solution for deliveries and shopping or even for carrying the kids.
- ▶ The mighty Cargo Line even enables heavy loads to be transported uphill.

NEW

85 Nm

Maximum torque

The easy way to transport heavy loads.

Cargo Line

400%

Maximum support

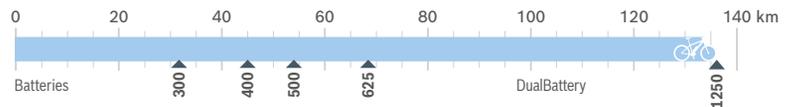
Powerful even under heavy loads.

25 km/h / 45 km/h
Cruise / Speed

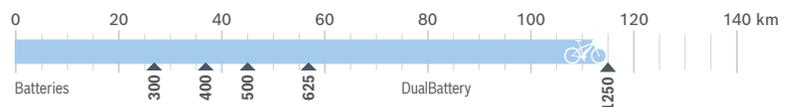
Drive unit

Support up to 25 km/h – with Cargo Speed up to 45 km/h.

Cargo Cruise range



Cargo Speed range



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

Highlights

- ▶ Specially designed for cargo pedelecs: With a separate product line for cargo bikes, Bosch eBike Systems sets new standards in the urban transport sector - for comfortable riding even when carrying a substantial load.
- NEW** ▶ More torque: With a torque of up to 85 Nm, the Cargo Line will offer even more powerful support at low cadences from model year 2021 onwards. This makes uphill starts easier, as well as delivering appreciable acceleration when transporting heavy loads.
- ▶ Perfect support every time: The Cargo Line offers up to 400% of powerful support across the entire speed range.
- ▶ Efficient motor: The powerful motor works very efficiently, with or without cargo. This allows long ranges, particularly in combination with DualBattery.
- ▶ A welcome tailwind: The mighty Cargo Line even enables heavy loads to be transported uphill.
- ▶ Get there faster: The Cargo Speed Drive Unit provides support up to 45 km/h. This allows riders to get their cargo to its destination quickly and comfortably.
- ▶ Safe riding sensation: The multi-sensor drive unit concept takes more than 1,000 measurements per second to ensure the perfect interplay between riders and their eBikes.
- ▶ DualBattery: The Cargo Line with DualBattery offers a significant increase in range with up to 1,250 Wh – especially suitable for heavy loads and longer distances.



Also ideal in combination with DualBattery for greater distances.

Cargo Line + SmartphoneHub + DualBattery 1000

The easy way to transport goods



For Sunday outings, weekly shopping trips or as a practical alternative to the car: The Cargo Line is specially designed for cargo bikes and makes the transport of goods an easy and convenient task. Whether or not you are carrying goods, the drive unit will always provide support at the right moment and respond precisely and predictably in every situation. The efficient motor offers controlled acceleration and propels cargo bikes with a powerful 85 Nm. The smartphone and COBI.Bike app turn the SmartphoneHub into an intelligent control centre on the handlebar that gives eBikers optimum connectivity options including navigation, the recording of activities and connection options to other apps and services. DualBattery 1000 provides an extra dose of energy on all journeys and doubles the range, thanks to the combination of two Bosch PowerPacks 500. Low in emissions, the cargo bike is the flexible way to get around, while also enjoying the fresh air.



Cargo Line Speed + Intuvia + DualBattery 1250

Keeping a finger on the pulse



Time for the weekly trip to the market:
The Cargo Line Speed Drive Unit offers support for cargo bikes up to 45 km/h and gets the rider and his/her goods quickly and comfortably from A to B. With up to 400% support, even heavy loads can be transported uphill. The motor is particularly efficient. The trip becomes even more comfortable with the Intuvia on-board computer: The clear display is easy to read in all lighting conditions and, thanks to the separate control unit, the rider's hands remain securely on the handlebar. DualBattery 1250 enables cargo bike riders to go even further: Connecting two PowerTubes 625 delivers up to 1,250 Wh of energy. Always one step ahead in terms of cargo S-pedelec flexibility.



The product combination described does not correspond to the motif shown.

Performance Line  | 

FOR LIMITLESS FREEDOM

FEEL THE FLOW

More riding enjoyment – on relaxed excursions to the countryside, sporty rides or on the daily commute to work. The most versatile drive system from Bosch is available in two variants: the Performance Cruise Drive Unit provides a natural riding sensation up to 25 km/h, while the Speed variant delivers support for speeds up to 45 km/h. The Performance Line Speed will support day-to-day journeys with a maximum torque of 85 Nm from model year 2021 onwards. Combining powerful acceleration and controlled handling on every trip: This means double the fun.

#FeelTheFlow

NEW

Speed variant
with up to
85 Nm





Performance Line

At a glance

Sporty riding

The Performance Cruise Drive Unit delivers the right support at the right moment, even on extended rides in the mountains. The riding sensation always remains natural; in 'off' mode and over 25 km/h with smooth pedalling action. The Performance Speed Drive Unit was developed to deliver dynamic support for everyday use or leisure cycling. The perfect way to cover long distances effortlessly and to facilitate sporty riding styles even in high cadences.

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

Highlights

- ▶ Sporty riding sensation: The efficient and versatile drive provides dynamic acceleration and, thanks to the smooth pedalling action, creates an authentic riding sensation even without support.
- ▶ Off to a good start: The drive delivers dynamic and sporty acceleration even at low cadences, offering powerful support as soon as you step on the pedals.
- ▶ Perfect interplay: The multi-sensor concept and fast information processing ensure optimum interaction between riders and their eBikes.

 Technical details on page 89



The Performance Line is also available with a backpedal function in combination with a hub gear system.



For a fast, dynamic riding sensation at up to 45 km/h.



Drive Unit Performance Cruise

- ▶ Unrivalled resilience: The robust drive unit meets the highest requirements for trekking or eMTB usage.
- ▶ Quiet enjoyment: The noise-optimised gearbox makes the drive unit one of the quietest drives in its class.
- ▶ For off-road adventures: Used mainly on eMountain bikes, eMTB mode offers controlled, comfortable acceleration.



Performance Line



Maximum torque

It facilitates sporty acceleration even in high cadences.



Maximum support

Dynamic, ideal for extended sporty rides.



Drive unit

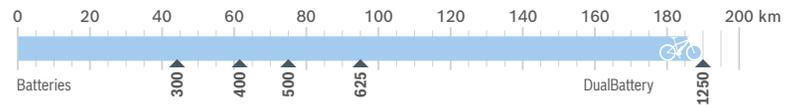
For all requirements and speeds up to 25 km/h.



Backpedal function

The Performance Cruise is also available with a back-pedal function.

Range



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.



Drive Unit Performance Speed

- ▶ Compact, lightweight design: The innovative drive concept reduces both weight and size. The Drive Unit Performance Speed weighs in at just 2.9 kg.
- ▶ More power for long distances: From model year 2021, the drive unit supports with a maximum torque of 85 Nm and thus provides even more thrust.



Performance Line Speed

NEW



Maximum torque

A torque of up to 85 Nm ensures a sporty riding sensation.



Maximum support

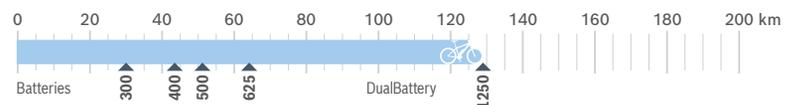
The powerful motor is perfect for long distances.



Drive unit

Supports up to 45 km/h.

Range



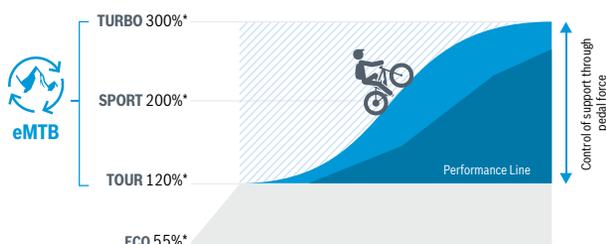
Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

Performance Line + Purion + PowerTube 500

Sporty riding



The route to the mountains by hardtail:
The Performance Line is particularly sporty and now includes eMTB mode, which can adapt dynamically to the individual's riding style. The riding sensation remains natural at all times, with smooth pedalling action in Off mode and also at speeds over 25 km/h. The compact Purion on-board computer displays all the key information at a click of your thumb. The hands remain on the handlebar and the eBiker can focus fully on the riding experience. The PowerTube 500 allows eMountain bikers to embark on long rides, while the integrated battery meets the highest standards in terms of performance and aesthetics. The demands of a sporty ride and relaxed riding enjoyment fun are ideally combined here.



*Support in % of pedal power

Performance Line + Kiox + Lock + PowerTube 500

Outdoors in your element



For adventures on paved roads and dirt tracks: The Performance Line offers a convincingly sporty and dynamic riding sensation. With a torque of up to 65 Nm, the drive unit delivers the right level of support at the right moment with smooth pedalling action even over 25 km/h or in Off mode. The stylish Kiox on-board computer is the ideal training partner. The robust display shows you your current power, cadence and heart rate, records your trips and sends all relevant data to the eBike Connect online portal via the smartphone, which is connected by Bluetooth. When the Kiox is removed from its mount, the new premium 'Lock' function deactivates motor support and the pedelec can only be unlocked by reconnecting the same on-board computer. PowerTube 500 integrates seamlessly in the eBike's design. The stylish and dynamic way to take your gravel bike on tour.



Performance Line + Nyon + PowerTube 625

Packed with power on tour



Active leisure cycling through forests, fields and mountains: With a maximum torque of 65 Nm and up to 300% support, the Performance Line provides plenty of power for sporty riding. The efficient drive provides dynamic acceleration and guarantees an authentic riding sensation with smooth pedalling action over 25 km/h or in Off mode. The new Nyon on-board computer ensures a fully networked eBike experience. Versatile route planning and navigation functions guide eBikers reliably to their destination even in unfamiliar areas. The robust, optimally readable touch colour display will withstand any weather. The PowerTube 625, an integrated lithium-ion battery with an energy content of around 625 Wh, enables the eBiker to enjoy plenty of power. Enjoy your time in the saddle while exploring nature with intelligent technology and powerful support.



Performance Line Speed + Intuvia + DualBattery 1250

The fast and nimble way
to beat rush hour traffic



Don't waste another moment worrying about congestion, traffic jams or finding a parking space: The Drive Unit Performance Speed speeds up daily routines and supports S-pedelecs with a maximum torque of 85 Nm and up to 45 km/h. The powerful motor enables high speeds to be reached quickly and long distances can be covered with ease. Compact in design and weighing only 2.9 kg, the drive unit offers easy, agile handling in everyday life. The Intuvia on-board computer offers even more comfort plus intuitive controls. The display shows you all riding data at a glance, while your hands remain safely on the handlebar thanks to the separate control unit. DualBattery 1250 is the perfect solution for commuters, wherever the road may take them: Combining two Bosch PowerTube 625s provides twice as much capacity. This is a combination that can make your journey to work an enjoyable experience.



Performance
Line



Performance Line CX  |  

FOR THE PERFECT UPHILL FLOW

FEEL THE FLOW

Made for people who love the trail. The Performance Line CX offers a unique eMTB experience: Compact, lightweight and with more power, it combines high-quality materials, an extremely powerful drive and high-end sensors. From model year 2021 with a torque of up to 85 Nm, new features in the motor control and a further development of eMTB mode – all as a software update. The new Performance Line CX makes every uphill ride a pleasure as the ideal warm-up for the subsequent downhill. That's what we call double the fun.

#FeelTheFlow #uphillflow

NEW

with up to
85 Nm

A NEW DIMENSION IN
RIDING ENJOYMENT

DOUBLE
THE FUN

#UPHILLFLOW



Performance Line CX

At a glance



reddot award 2019
winner

The superlative among drives

The Performance Line CX offers a unique eMTB experience: The compact eMountain bike motor with the innovative gearbox conquers every trail – offering support up to 340% for steep ascents and delivering full power from a standing start. The motor and gearbox decouple at speeds of over 25 km/h, ensuring a natural riding sensation. From model year 2021 with a torque of up to 85 Nm, new features in the motor control and a further development of eMTB mode – all as a software update. For a thrilling riding experience: more natural, intuitive and powerful and an absolute benchmark in this class.

- ▶ The drive for the ultimate Uphill Flow.
- ▶ More riding enjoyment in challenging terrain and on inclines.



Performance Line CX



Maximum torque

Powerful acceleration despite compact size.



Maximum support

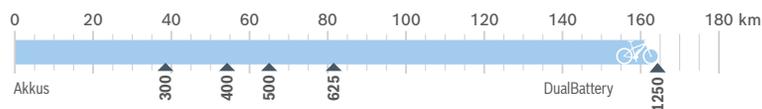
For powerful propulsion, an extremely sporty riding style and fast sprints.



Drive unit

Powerful support up to 25 km/h, even on steep mountain rides.

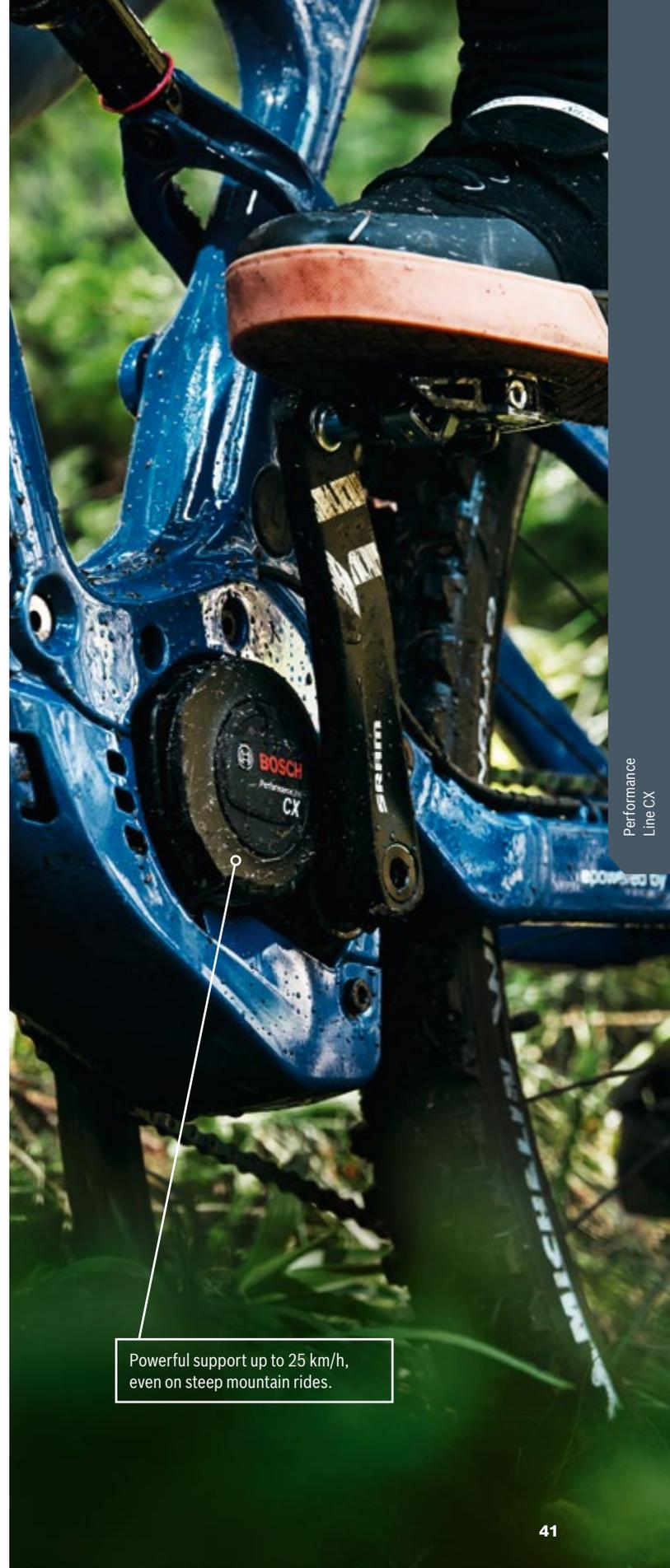
Reichweite



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

Highlights

- NEW** ▶ **More torque:** Increased to 85 Nm, the maximum torque has a noticeable effect on riding behaviour. This accelerates faster, particularly at low cadences, and makes uphill starts much easier. The eMountain biker has more power available directly in difficult conditions.
- NEW** ▶ **Perfect control:** The enhanced eMTB mode ensures better control on the trail, without having to switch riding modes.. The motor responds much more sensitively to the rider's effort, especially in low gears, enabling an extremely sensitive start.
- NEW** ▶ **Extended Boost:** The new function helps eMountain bikers to negotiate exposed roots, steps and stones, even uphill: The eMTB will respond with agility and ease to even the most technically demanding trails.
- ▶ **Maximum agility:** More than 1,000 sensor measurements per second enable an extremely sensitive response. When combined with the innovative Bosch power control, dynamic, responsive and natural riding modes are available.
- ▶ **Natural riding dynamism:** The powerful 32-bit processor enables sensor signals to be processed at high speeds for precise power control. The eMountain biker thus receives the best possible support in all riding situations.
- ▶ **Thermal stability:** The drive unit is extremely efficient and, thanks to the completely maintenance-free 16-pin BLDC electric motor featuring the latest bar winding, it is characterised by great thermal stability. This ensures constant performance even under continuous load.



Powerful support up to 25 km/h, even on steep mountain rides.

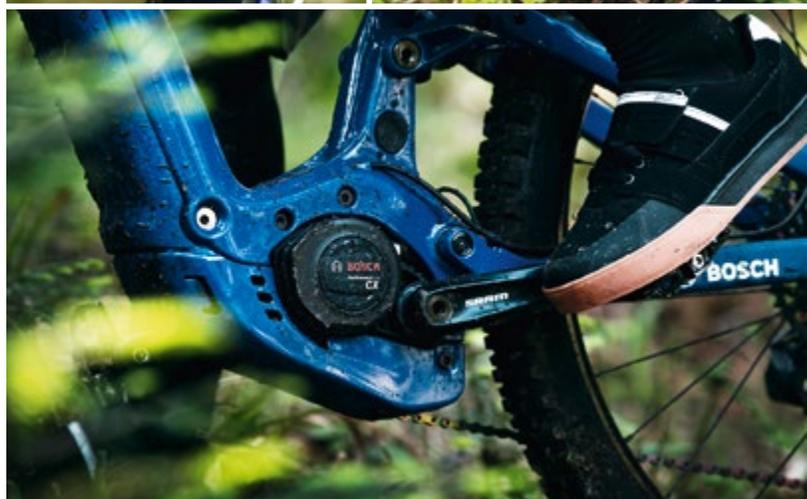
Performance Line CX + Nyon + PowerTube 625

The perfect trail experience



For ultimate alpine riding enjoyment:

The Performance Line CX offers eMountain bikers plenty of power for the trail. The powerful drive is particularly light and compact at only 2.9 kg. With a torque of up to 85 Nm, the drive unit accelerates extremely powerfully, responds without delay and features convincingly agile handling and even more control. In eMTB mode, the rider always receives the required power at just the right moment. The new, fully connected Nyon on-board computer acts as the eBiker's personal fitness trainer. Training data is displayed during the ride and can then be evaluated in detail or shared. The PowerTube 625 brings maximum ranges and altitudes within your grasp. The sophisticated technology of the integrated batteries ensures carefree riding enjoyment. This is the ideal solution for ambitious eMountain bikers and the perfect uphill flow.

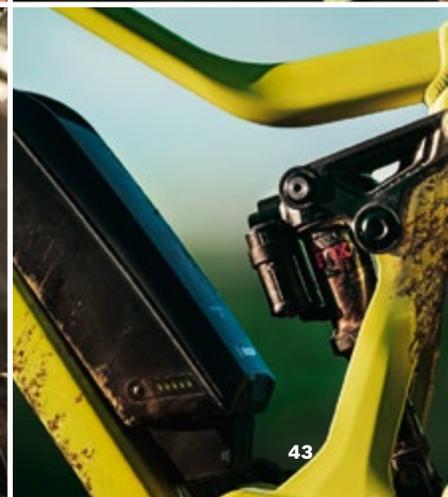
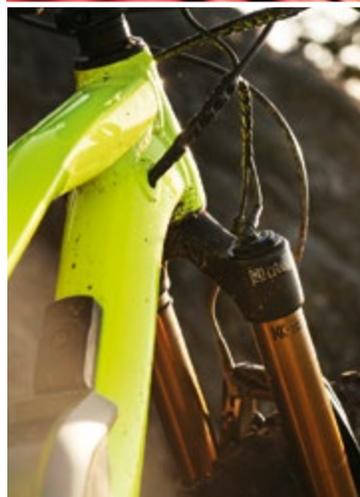


Performance Line CX + Kiox + PowerPack 500 + eSuspension

Combination for eMTB
professionals



Prepared for any challenge: The Performance Line CX is optimised for sporty, powerful and dynamic riding in challenging terrain. The drive unit fits easily and discreetly into the eMTB frame and offers a convincingly natural riding sensation thanks to the freewheel feature. With up to 340% of perfectly delivered support, it brings greater riding enjoyment to the trail, perfectly complemented by the electronically controllable suspension E-Live Valve by FOX, which enables the suspension fork and rear shock to adapt automatically to the terrain in fractions of a second. It can be controlled with the Kiox on-board computer. Made from scratch-resistant glass, the colour display is impervious to dirt and stone chippings and offers all the functions a sporty rider would need. The PowerPack 500 provides enough power for mountain adventures. This takes the eMountain bike experience to a new level.



eMTB mode

For the ultimate Uphill Flow

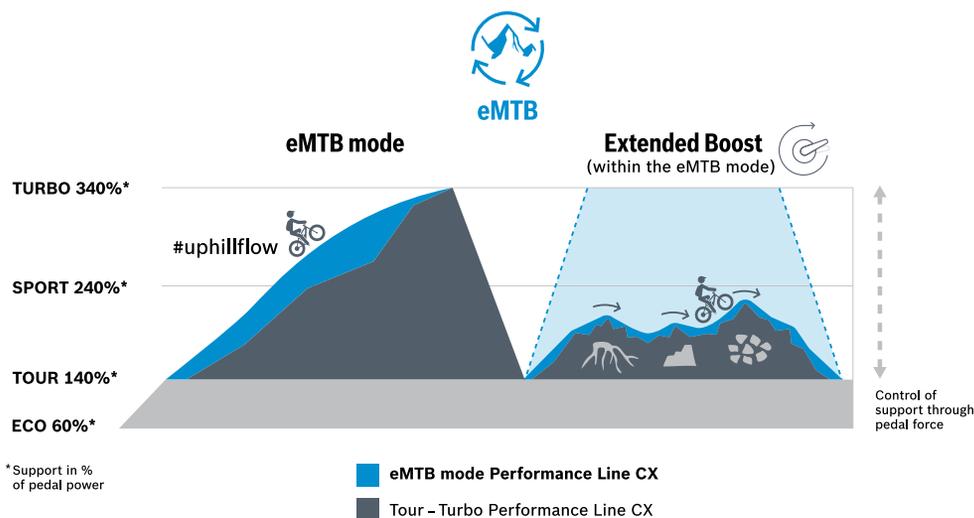
Full control on the mountain: Advanced eMTB mode ensures eMountain bikers are well-prepared for whatever riding situation the trail may have in store. Thanks to new sensor and engine control functions, they can now benefit from even more dynamic and natural support in all riding situations. Depending on pedal pressure, progressive motor support adapts perfectly to the riding situation. The improved adjustment of eMTB mode ensures optimum traction control in all gears and enables organic handling ("power on demand"). Start-up behaviour is much finer and more sensitive, especially in low gears. Due to the increased torque, the drive unit supports an even wider cadence range.

- ▶ **Better delivery:** maximum traction and control.
- ▶ **Sporty starting:** perfect start-up behaviour as soon as you step onto the pedals.
- ▶ **Improved dynamics:** effortless riding on technical uphill sections or when obstacles are encountered.

NEW Extended Boost

Extended Boost is the unrivalled function for negotiating exposed roots, steps and stones with ease, even uphill. The eMTB can be manoeuvred with much greater agility and ease on technical passages. The unique dynamism means that obstacles can be overcome with ease by applying the right amount of pressure to the pedal.

The new, innovative function in eMTB mode can be controlled to optimum effect in all riding situations. If the front wheel is already on the step, slight pressure on the pedals is all it takes to give the decisive "kick".



"Experiencing technical innovations is quite wonderful! The sophisticated sensor technology ensures a dynamic response and the associated intuitive riding sensation creates the ultimate uphill flow feeling, even on tricky uphills."

Stefan Schlie
Runner-up Trials World Champion



VISIT THE WEBSITE
bosch-ebike.com/uphillflow



eMTB extras

For even more power on the trail

The clever eMTB extras provide just the right extra kick – exactly when you need it.

- ▶ **Short cranks:** Bosch also offers the right support for short cranks. This gives eMountain bikers more ground clearance.
- ▶ **Powerful walk assistance function:** Walk assistance provides instant powerful support in the face of almost any obstacle.
- ▶ **eSuspension:** The E-Live Valve electronically controllable suspension from FOX, which has been integrated into the Bosch eBike system, adapts the suspension fork and shock absorber to the terrain in fractions of a second, thus ensuring the ideal suspension setting at all times.
- ▶ **SRAM-Eagle gear shifting system:** The latest generation of high-tech gear shifting systems uses 12 gears and the clean, low-wear running of the 2 X-Sync chainrings to create a unique and lasting riding experience.

Displays  |  | 

INTELLIGENCE ON YOUR HANDLEBAR

FEEL THE FLOW

The perfect companion for every type: Bosch has various on-board computers and smartphone solutions in its portfolio, thus ensuring the right display for every possible need and situation. From the pared-back minimalist display and the all-in-one on-board computer with navigation functions to eBike control via smartphone.





Displays

At a glance



Purion: A click of the thumb is all it takes for Purion to display all important information.



Intuvia: Intuvia is the intuitive way to control the eBike. The display remains clearly visible in all lighting conditions.

Connected Biking with



Kiox: The connected training partner offers all functions a sporty rider needs - including navigation via the eBike Connect smartphone app.

Connected Biking with



reddot winner 2020



Nyon: The new Nyon on-board computer is the connected all-rounder for the eBike: The 'Touch' function makes it easy to operate the colour display.

Connected Biking with



SmartphoneHub: This clever networking device uses the smartphone and the COBI.Bike app to offer eBikers a wide range of useful connectivity functions.

Connected Biking with



COBI.Bike: The networked smartphone cockpit keeps eBikers connected to the digital world even while on the move.



Connectivity

eBike Connect smartphone app

For Kiox and Nyon

The eBike Connect app connects Kiox and Nyon to the smartphone via Bluetooth. There you can change settings or track your activities – for a very personal Connected Biking experience. The perfect companion from route planning and navigation during the journey to the evaluation of fitness data and much, much more.

In addition, all the relevant information is available in the online portal under ebike-connect.com and can be viewed or edited on the tablet or PC.



Kiox



Nyon

						
	Purion	Intuvia	Kiox	Nyon	SmartphoneHub	COBI.Bike**
Five riding modes	●	●	●	●	●	●
Shift recommendation	○	●	○	●	○	○
Walk assistance	●	●	●	●	●	●
High resolution display	○	○	●	●	○	○
Integrated display	●	●	●	●	●	○
Splash-proof	●●●	●●●	●●●	●●●	●●●	●●●
Navigation	○	○	●	●	●**	●
Fitness tracking	○	○	●*	●	●**	●
eMTB mode	●	●	●	●	●	●
Compatible with eShift	○	●	●	●	○	○
Compatible with DualBattery	●	●	●	●	●	●
Third party digital services	○	○	●	●	●**	●
Theft protection	○	○	●	●	○	●
eBike Connect app	○	○	●	●	○	○
COBI.Bike app	○	○	○	○	●	●

* Only available in conjunction with a smartphone and the eBike Connect app.

** Only available in conjunction with a smartphone and the COBI.Bike app.



COBI.Bike smartphone app

For SmartphoneHub and COBI.Bike



The SmartphoneHub and COBI.Bike smartphone solutions offer eBikers the ultimate Connected Biking experience. You can stay connected with the digital world and with your best friends even when you're on the move. The COBI.Bike app enables access to music and personal contacts, records fitness data, provides reliable navigation to the destination and supports the sharing of routes within personal networks.

This means that eBikers are well equipped for their trips, even in the event of an emergency: If a fall is detected, the new 'Help Connect' premium function ensures fast assistance. After all, when it comes to an enjoyable ride, it's the right connections that count!



Purion

Compact purist



Concentration on what really matters with all the key information with a click of a 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.
- ▶ Optimum readability: The backlit, non-glare display allows you to read all riding data clearly, even in direct sunlight.
- ▶ The optional service interval display always provides a reminder when the eBike is next due for a service.
- ▶ Easy diagnostics: Specialist dealers can monitor the status of the Bosch eBike system via the micro USB interface.
- ▶ 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



Intuvia guarantees the rider easy and intuitive control of their eBike. The display is easy to read in all lighting conditions and, thanks to the separate control unit, the rider's hands remain securely on the handlebar. The shift recommendation ensures you always pedal in the correct gear, saving the battery and increasing your range.

The facts

- ▶ Maximum ease of use: Easy operation via the separate control unit.
- ▶ Ideal for travelling: 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 smartphones via the micro-USB port while riders are on the move.
- ▶ The optional service interval display always provides a reminder 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

Sporty connectivity



Small, connected and pioneering: The Kiox on-board computer offers ambitious sporty eBikers access to the digital world via the eBike Connect smartphone app, while also enabling them to navigate to their destination. The robust colour display ensures riders can always see their riding data at a glance, while the separate control unit allows them to keep the eBike

under control. Kiox can record your trips and send all the relevant data via Bluetooth and Smartphone to the ebike-connect.com online portal. When connected with a heart rate monitor using Bluetooth, Kiox also enables riders to get the most out of their training. This makes Kiox the perfect companion – for sporty rides and Connected Biking adventures.



Compact and robust



Connected Biking

The facts

- NEW** ▶ **Precise orientation:** The new navigation function supports eBikers as they explore unfamiliar areas. You can plan your route with ease in the eBike Connect app or in the online portal. Navigation runs on the smartphone connected via Bluetooth. During the journey, Kiox indicates the route of the planned trip and the distance to the destination. The view on the display rotates in the direction of movement. When connected with komoot or Outdooractive, they can discover many more routes nearby.
- NEW** ▶ **Individual display:** Screens and the choice of riding data to be displayed can be easily adapted to your own needs on Kiox.
- ▶ **Optimum training:** Kiox can be connected to a heart rate monitor using Bluetooth technology. This enables eBikers to check their current heart rate at any time, helping them to get the most out of their training. The on-board computer also provides all important training

data in real time and shows the rider's cadence, calorie consumption and personal performance.

- ▶ **Clear evaluation:** All relevant riding data is recorded by Kiox and transmitted via Bluetooth to the eBike Connect app. All activities can be evaluated there or in the online portal.
- ▶ **Practical magnetic mount:** Stowed quickly yet still securely mounted – thanks to the magnetic mount, the on-board computer can be removed and attached with ease.
- ▶ **Great looking design:** The compact and handy display makes for an uncluttered handlebar and a minimalistic eBike look.
- ▶ **Unbreakable glass:** Whether dealing with dirt or stone chippings, the scratchproof glass display is a robust companion, both on the trail or in the city.

Navigation



Magnetic mount



- ▶ **Remote Compact:** The buttons of the separate control unit enable the on-board computer to be operated comfortably using your thumb. The distinct, tactile pressure behind the buttons gives the rider clear feedback.
- ▶ **Intelligent additional protection:** The 'Lock' premium function makes Kiox the key to greater security. This function enables motor support to be deactivated by removing the on-board computer. A smart complement to a mechanical lock.

In addition to the integrated functions, Kiox supports separately available eBike innovations, such as the **eSuspension** electronically controllable suspension (→ page 45), the **Bosch eBike ABS** (→ page 72) and the **eShift** electronic gear shifting solution (→ page 76).



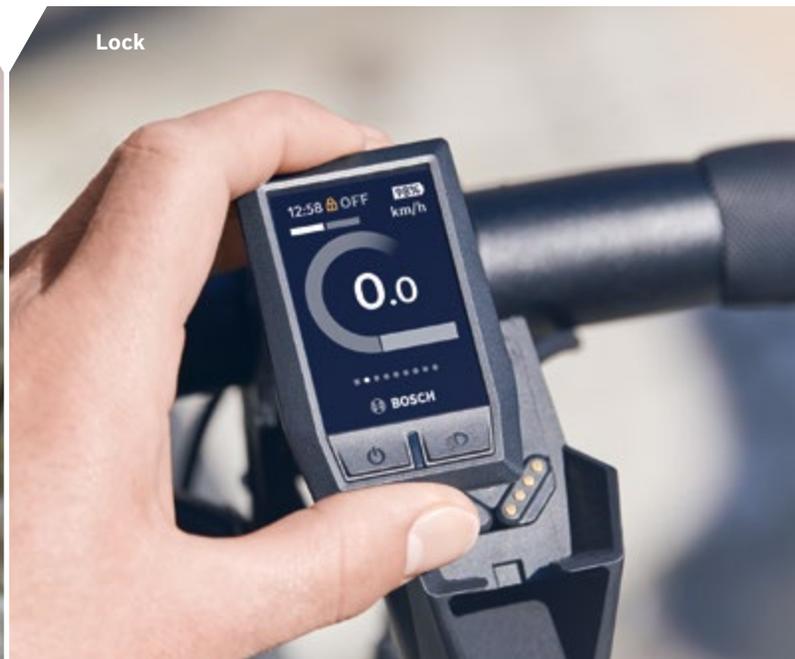
Connected Biking with Kiox:

The eBike Connect app allows the Kiox to be connected to the smartphone and the ebike-connect.com online portal via Bluetooth.

 Technical details on page 90



Remote Compact



Lock



Connected Biking with



NEW

Nyon

Connected all-rounder



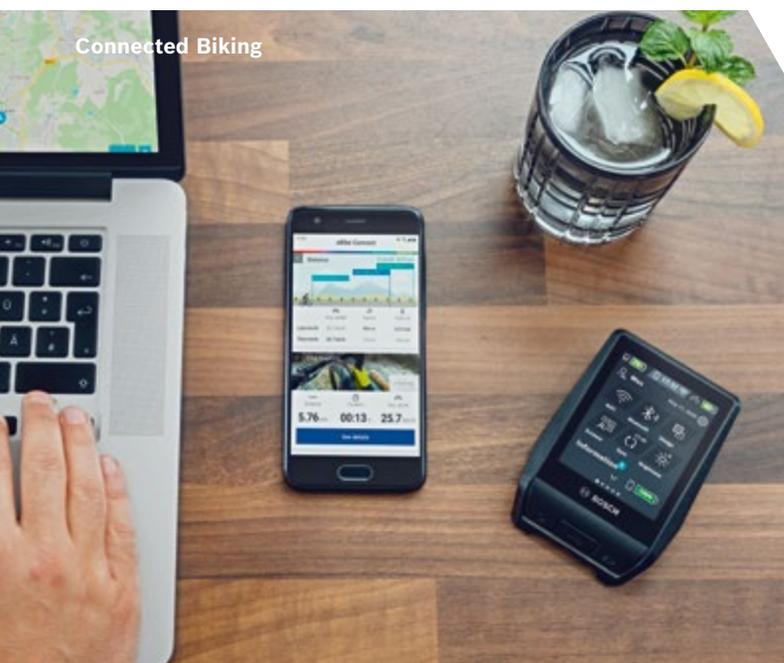
reddot winner 2020



▶ Riding modes, see page 10

The new Nyon paves the way for a fully connected eBike experience. The smartphone eBike Connect app connects the Nyon with the smartphone and exchanges data about routes and activities. The colour display with touch screen and navigation

function supports pedelec riders as they explore unfamiliar places. Fitness functions mean that a personal trainer is also on board. A whole generation smarter, more intuitive and more connected – that's how Connected Biking feels.



Connected Biking



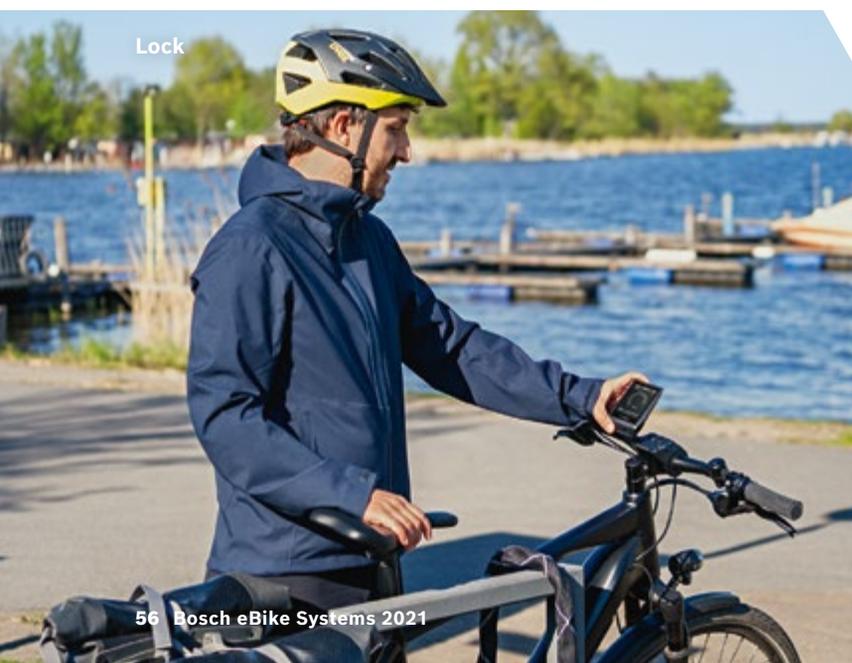
Touch screen with colour display

The facts

- ▶ **Simple operation:** The 'Touch' function makes Nyon even more intuitive and a separate control unit can be used while riding. The user interface can be adapted to your own specific needs.
- ▶ **Award-winning design:** The 3.2-inch, high-resolution colour display combines smart functions with elegant design and was awarded the Red Dot Design Award.
- ▶ **Optimum readability:** The brightness of the display automatically adjusts to the ambient light and a special coating reduces reflections. To ensure the best possible readability, there are two mounting positions to choose from for the display mount.
- ▶ **Smart navigation:** Nyon acts as an intelligent guide, supporting the eBiker. You can conveniently enter your destination, zoom in and out and select your destination via the touchscreen. Notification tones during the trip alert eBikers to the next turn, so that they can fully concentrate on their trip. You can plan your route in comfort using the app as well as in the ebike-connect.com online portal or directly on the Nyon on-board computer. The most recent destinations are clearly listed and can be selected directly. By saving their current location, riders can quickly find their way back to their

starting point. The integration of Outdooractive and komoot enables a large number of routes to be imported and explored.

- ▶ **Topographical residual range:** The map shows how far the eBiker is likely to get using the relevant support mode and on the current terrain. During route planning and active navigation, Nyon will indicate whether the destination can be reached with the selected motor support.
- ▶ **Motivating training:** The Nyon uses pedal force and cadence to calculate the eBiker's performance. The on-board computer displays current calorie consumption, can be connected to a heart rate monitor and compares the training data of the current trip with the average values. This tells the eBike whether the current performance is better or worse than his own personal average. In the eBike Connect smartphone app or ebike-connect.com online portal, users can call up a graphic display and detailed analysis of their own performance. If they want, eBikers can easily share their recorded data and tours with apps like Strava and komoot.



- ▶ **Weatherproof display:** The touch screen of the robust display remains fully functional, even in rain or dust.
- ▶ **Intelligent additional protection:** Available at a fee, the 'Lock' premium function disengages motor support when Nyon is removed. The electronic lock only unlocks again when the same on-board computer is re-connected.
- ▶ **Custom riding modes:** This premium function allows you to configure your own riding modes. This allows motor support for different speeds to be adapted to a rider's personal riding style.

- ▶ **Multiple users:** eBikers can share their Nyon with family or friends - everyone can then synchronise their ride data with their own account.
- ▶ **Simple updates:** Software updates or new maps can be conveniently downloaded over-the-air and installed.

In addition to the integrated functions, Nyon supports separately available eBike innovations, such as the **Bosch eBike ABS** (→ page 72) and the **eShift** electronic gear shifting solution (→ page 76).



Connected Biking with Nyon:

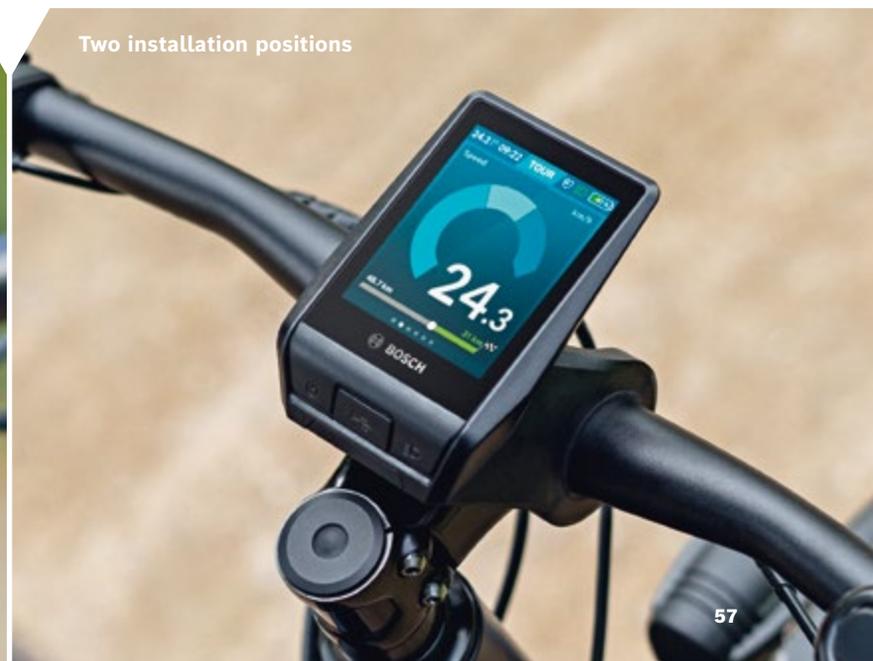
The eBike Connect smartphone app and the ebike-connect.com online portal also connect Nyon to the digital world.

 Technical details on page 90

Route planning



Two installation positions





Connected Biking with



SmartphoneHub

Intelligence on your handlebar

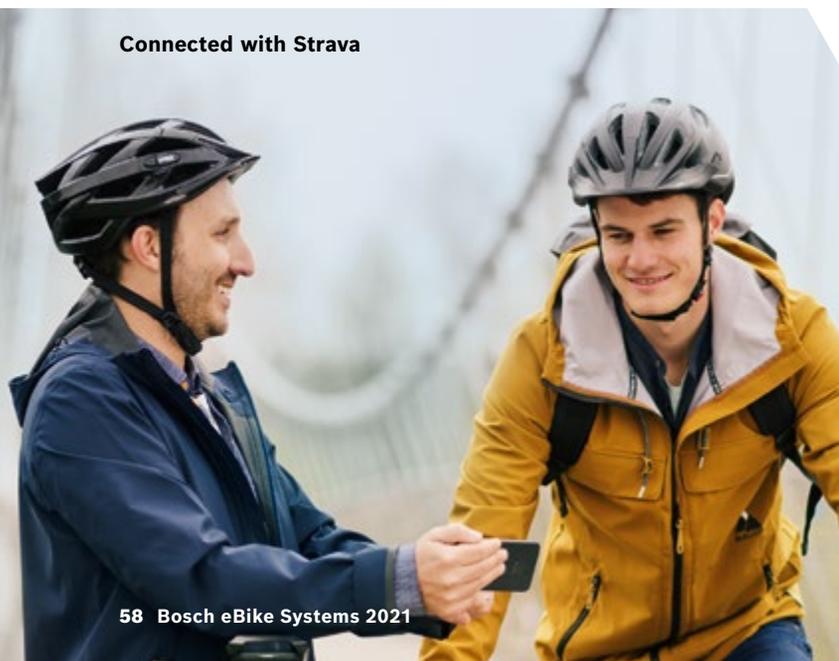


▶ Riding modes, see page 10

Thanks to the smartphone and COBI.Bike smartphone app, the SmartphoneHub offers eBikers a wide range of useful functions – from navigation, music control, fitness tracking and making calls to the connection to other services and apps, such as Strava or komoot. An integrated display that supplies the eBiker with the most important riding data, even without the smartphone, ensures complete flexibility. The

SmartphoneHub keeps eBikers perfectly connected, even in an emergency: The COBI.Bike app and the new Help Connect premium function offer them an alert, digital companion at their side that can be relied upon to provide fast assistance if it detects that the rider may have had an accident. Makes the riding experience significantly more relaxed and a little bit smarter.

Connected with Strava



Connected Biking



The facts

- ▶ **Optimum connectivity:** Thanks to the smartphone with the COBI.Bike app, the SmartphoneHub can become a fully connected control centre that navigates, records activities and connects them to other services and apps.
- ▶ **Well conceived solution:** The combination of smartphone, SmartphoneHub, COBI.Bike app creates a completely connected riding experience. At the same time, the eBiker enjoys maximum flexibility and can use their eBike with or without a smartphone connected.
- ▶ **Integrated display:** The 1.5-inch LCD display integrated in the SmartphoneHub shows the most important riding data and enables the eBike system to be activated – even without a smartphone on the handlebar
- ▶ **Live weather:** Up-to-the-minute weather forecasts ensure that eBikers are always well-informed thanks to the COBI.Bike app.
- ▶ **Reliable navigation:** eBikers can rely on the COBI.Bike app to guide them to their destination – with either 2D or 3D map view. The navigation instructions are also issued by voice output using the smartphone.
- ▶ **Digital training partner:** Use the COBI.Bike app to turn the smartphone into a digital trainer by connecting to fitness and health services like Apple Health, Google Fit and Strava.
- ▶ **Fast support in emergencies:** The COBI.Bike app recognises whether and how badly the eBiker may have fallen. The new 'Help Connect'* premium function ensures that a trained service team is alerted in the event of an accident, and that the rescue chain is activated as the situation requires.

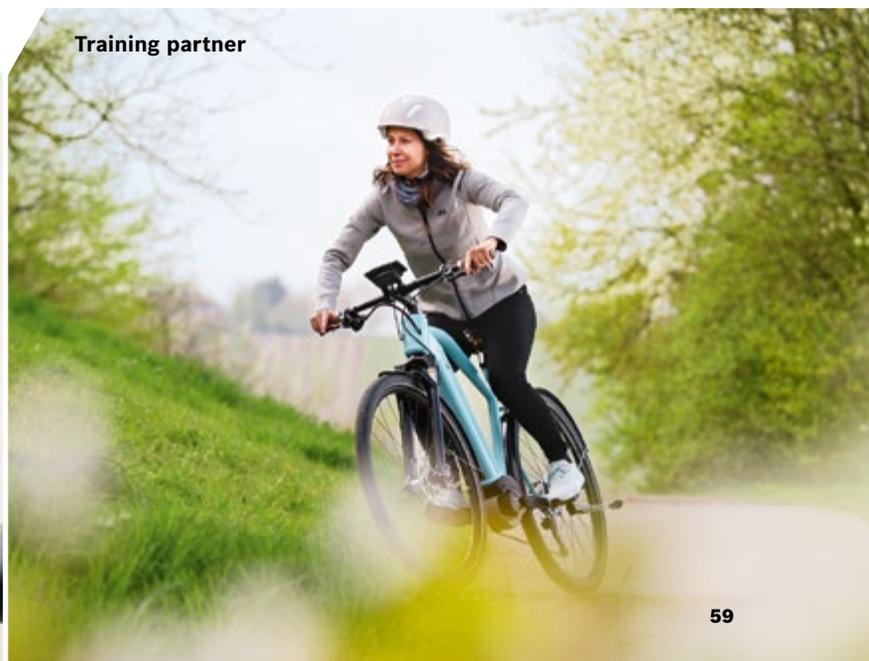
NEW

* Help Connect is currently only available for users with German SIM cards and the service is in German and English. It is available in eleven countries: Germany, Austria, Switzerland, France, Belgium, Netherlands, Luxembourg, Great Britain, Ireland, Italy and Spain.

Intelligent solution



Training partner



- ▶ **Smart training:** Thanks to the COBI.Bike app, eBikers can enjoy a permanent overview of the most important training data such as performance, cadence and calorie consumption. It is also possible to connect a heart rate monitor using Bluetooth technology.
- ▶ **Unbeatable entertainment:** The COBI.Bike app allows eBikers access to music and audio book streaming services.
- ▶ **Convenient charging function:** The smartphone can be connected to the SmartphoneHub using the USB port or by means of the optional iPhone mount, enabling it to be conveniently powered from the eBike battery.
- ▶ **Easy handling:** The separate control unit enables eBikers to control all functions comfortably from the handlebar. The voice output means that you no longer have to look at the display while navigating or changing functions.
- ▶ **Good readability:** Information is always perfectly readable, whether on the display of the smartphone or SmartphoneHub.
- ▶ **Wireless update:** Software updates for the SmartphoneHub can be installed with ease via wireless technology using the COBI.Bike app.



 Technical details on page 90



Social media connections



Smartwatch connection



The intelligent smartphone cockpit

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. The weatherproof COBI.Bike finally gives your smartphone a place of its own and supplies it with power. Perfectly positioned and securely held in place – operated via the control unit on the handlebar.



Plug & play for eBikes

Advantages at a glance:

- Existing lighting system controllable
- Integrated alarm system and bell
- Networking with apps like komoot, Strava, Spotify or Apple Health
- Fitness monitoring and tracking
- Voice output (also via headphones)
- Regular software updates
- The COBI.Bike app smartphone app is specially designed for cyclists, so that all data can be absorbed quickly and intuitively
- Plug & Play: Disconnect the Bosch display and connect the COBI.Bike
- enhance the system functions
- system
- Operation via Bosch control unit
- Motor control even without a smartphone
- Mobile phone charging function from the eBike battery
- Live residual range warning



Further information at bosch-ebike.com/cobibike



Batteries + Chargers 

PACKED WITH POWER

FEEL THE FLOW

Whether you're taking a tour through the countryside or a ride through the city – using the PowerPacks or PowerTubes means there's no limit to riding enjoyment. With their smart Battery Management System (BMS), they are among the most modern lithium-ion batteries on the market. There is a suitable Bosch battery for every need. Riders who want to go further can benefit from twice the range with the DualBattery.



Batteries +
Chargers

 **VIEW THE
BATTERY
GUIDE** 

Batteries and chargers

At a glance



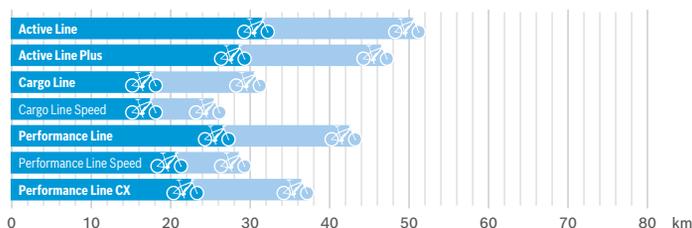
Batteries



PowerPack 300



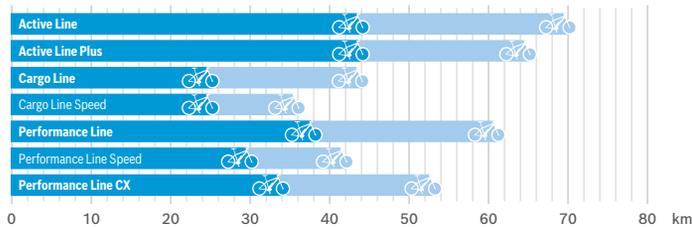
Range*



PowerPack 400



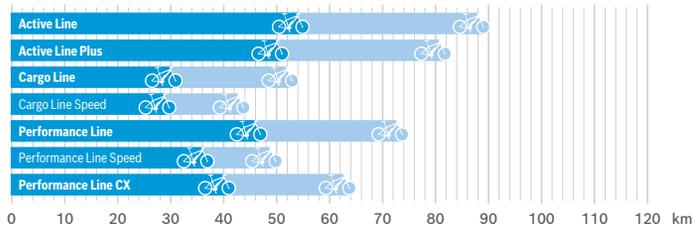
PowerTube 400



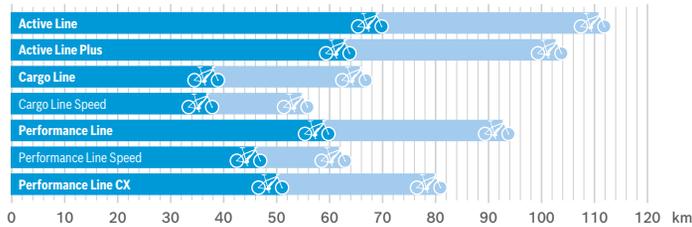
PowerPack 500



PowerTube 500



PowerTube 625



DualBattery 1250



= Difficult conditions

= Favourable conditions

* Average of combined use of all four modes and both difficult and favourable conditions.



Chargers

Compact Charger



Standard Charger



Fast Charger*

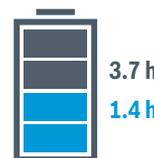
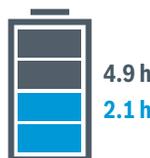
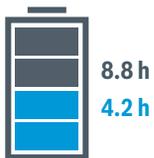
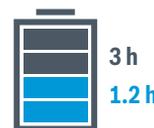
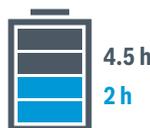


Charging

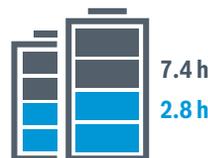
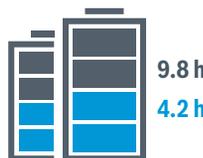
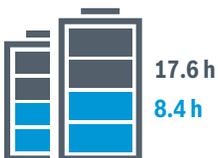


■ 50% charge ■ 100% charge

*The charging current for the PowerPack 300 and batteries of the Classic + Line is limited to 4 A.



The range of Bosch rechargeable batteries depends on numerous different factors. The range assistant enables eBikers to estimate a typical range considering a range of conditions.



VISIT THE WEBSITE
bosch-ebike.com/range



PowerPacks

Versatile power sources



Bosch PowerPacks come in a variety of types: The PowerPack 300 is the ideal companion on short, high-speed rides. The power of the PowerPack 400 also gives you greater spontaneity to explore new places. The PowerPack 500 offers even more energy and riding enjoyment, even though it is the same size as the PowerPack 400 and not much heavier. All PowerPacks are available in a number of different versions. Frame batteries are close to the bike's centre of gravity. This has a positive effect on

riding behaviour. The rack variant is ideal for step-through models, offering greater freedom when mounting or dismounting. Charging is very simple in both variants: For charging with a Bosch charger, the PowerPacks can be removed with just one hand movement or conveniently charged on the bike itself. The high-quality, long-lasting eBike batteries from Bosch have the highest energy density with a compact size and light weight.



PowerPack 300



PowerPack 400



PowerPack 500

 [Technical details on page 88](#)



PowerTubes

Powerful performers



For the highest demands in terms of performance and aesthetics: Bosch PowerTubes are packed with the power to drive any ride and, thanks to their compact size and minimalist design, can be seamlessly integrated into the eBike. There are two options for installing the battery: horizontally or vertically. The PowerTube is available in three versions: The PowerTube 400 is the right battery for stylish city bikes, while the PowerTube 500 ensures trekking and eMoun-

tain bikes are perfectly equipped for longer distances. The PowerTube 625 brings maximum ranges and altitudes within your grasp on even longer distances and high mountainous trips. The sophisticated technology of the lithium-ion batteries that can be integrated within the frame ensures carefree riding enjoyment. A safety catch prevents the battery from falling out when riding rough terrain, while still allowing the battery to be easily removed.



PowerTube 400



PowerTube 500



PowerTube 625

 Technical details on page 89



DualBattery

Twice the power



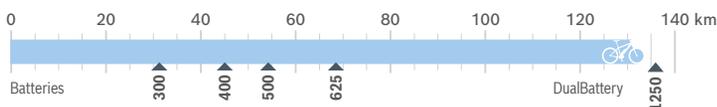
No journey is too long: DualBattery is the perfect solution for tourers, long-distance commuters, and eCargo bikers. The combination of two Bosch batteries delivers up to 1,250 Wh and can be installed in almost any battery combination* from the manufacturer. The system switches intelligently between the two batteries both during charging and discharging. DualBattery is suitable for long distances and heavy loads.

More range for long distances

- ▶ Connecting two batteries can double the range of the eBike.
- ▶ DualBattery permits battery capacities of up to 1,250 Wh.
- ▶ Intelligent energy management control software is used to charge 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.

* PowerPack 300 and PowerTube 400 will not work in any combination with DualBattery.

Cargo Line range



Average of combined use of all four modes in favourable conditions. Further details in relation to conditions can be found online.

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 2 A Compact Charger, 4 A Standard Charger and 6 A Fast Charger, Bosch has developed three models that can charge the eBike quickly and reliably.

- ▶ **Functional and silent:** An ergonomically shaped charging plug facilitates handling; the compact dimensions allow the device to fit comfortably into the smallest of bags. The enclosed housing gives the charger extra stability, while the battery charges with minimal noise.
- ▶ **Easy to handle and compact:** A practical Velcro fastener is also helpful when stowing the cable.



Compact Charger

The Compact Charger is the ideal charger for all eBikers who find themselves 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 also be used in the USA, Canada and Australia with mains voltages of 110 to 230 Volts.



Standard Charger

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



Fast Charger

Faster than any charger in its class: After just three hours, the powerful PowerTube 500 or PowerPack 500 are fully recharged. The Fast Charger needs only a little more than an hour to charge a 500 Wh battery to 50%. This makes it ideal for eBikes that are often used and frequently charged.

eBike safety 

RE-INVENTING SAFETY

Even better protection on the road: This is what Bosch eBike Systems is always striving for. Solutions that make everyday eBike use even safer. For example the first series-ready eBike ABS for controlled braking even under difficult conditions. The 'Help Connect' premium function provides quick assistance in an emergency. The eBike itself is protected by the 'Lock' function, as a supplement to a mechanical lock. The premium function deactivates the motor support as soon as the on-board computer is disconnected. Thus, technology is used in service of a safe and secure riding sensation.





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.

The safety advantages:

- ▶ More active and efficient use of the front wheel brake.
- ▶ Optimised riding stability and manageability of the eBike during braking, especially when riding on slippery road conditions.
- ▶ When the front wheel brake is applied forcefully, the rear wheel lift control reduces the chances of the rider being thrown over the handlebar.
- ▶ 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.
- ▶ The status of the ABS is shown on the display of the Kiox or Nyon (from model year 2021 onwards) on-board computers by means of a corresponding symbol. Eliminating the separate ABS warning light means that eBikers benefit from an uncluttered handlebar.

 Technical details on page 91



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 locked if the brake is applied too forcefully, thus optimising the riding stability and steerability of the eBike – especially on slippery road conditions. Regulated and sensitive braking behaviour significantly increases control, stability and safety.



Rear wheel lift control

The rear wheel lift control of the 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 probability of being thrown over the handlebar. This enables the front brake to be used more actively and efficiently.

Compatible with



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



Purion



Intuvia



Kiox



Nyon



1

ABS control unit (with housing)



2

ABS control light, separate or integrated in Kiox or Nyon



3

ABS wheel speed sensor



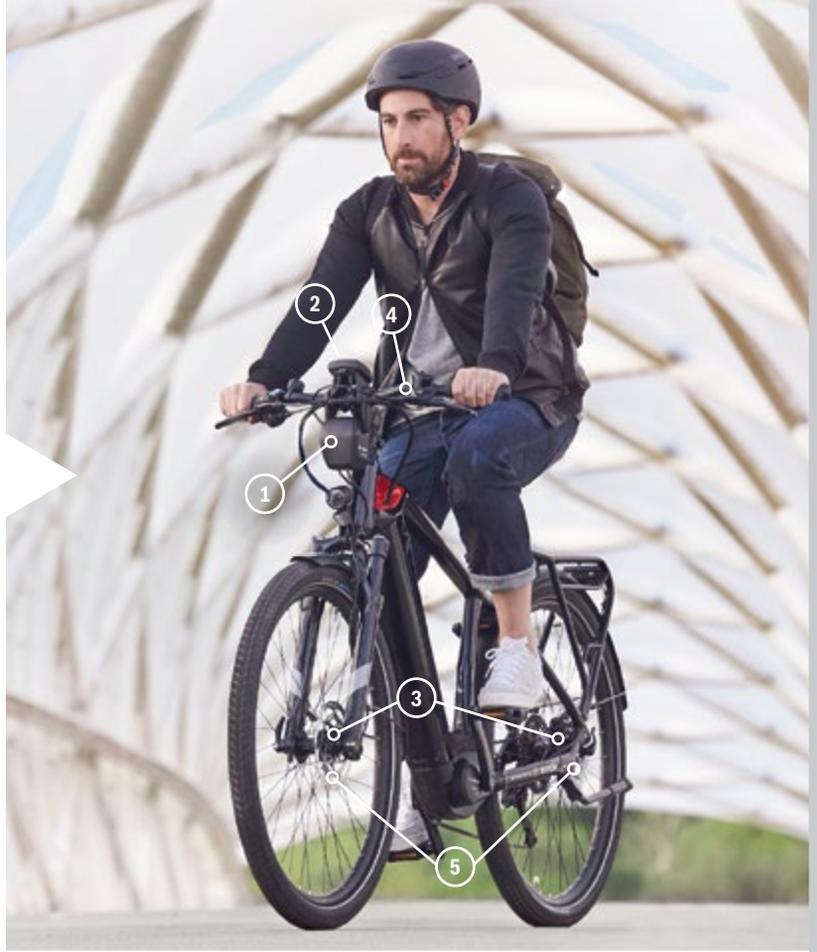
4

Magura brake lever



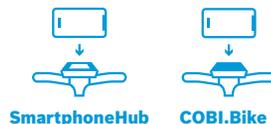
5

Magura ABS sensor disc
+ Brake disc





Compatible with



Connected Biking with



NEW

Help Connect

Fast support in emergencies

The first few minutes are vitally important when an accident happens. 'Help Connect' can be relied on to provide fast assistance in an emergency. The new premium function of the COBI.Bike app gives eBikers an alert, digital companion at their side. If a fall is detected, the app uses the smartphone to produce

audible signals that will attract the attention of anyone in the vicinity. At the same time, Help Connect alerts a 24-hour service team that monitors the rider and that can forward his location to the emergency services in an emergency. For a great feeling on every ride.

The facts

- ▶ Automatic accident detection: The COBI.Bike app uses a smart algorithm to recognise whether and how badly the eBiker may have fallen.
- ▶ Help Connect Service: In the event of a serious fall, contact is automatically established with the Help Connect Service.
- ▶ 24/7 emergency support: The Help Connect Assistant gives eBikers telephone access to trained service personnel around the clock, enabling a rescue chain to be initiated immediately in the event of an emergency.
- ▶ Pinpointing locations: 'Help Connect' locates the accident location and transfers it to the Help Connect Service via the data connection of the smartphone.
- ▶ Accident alarm: If an accident is detected, the smartphone emits warning signals to alert anyone in the vicinity. This means that any nearby first responders can be on the scene more quickly.
- ▶ Just in case: The connection to the Help Connect Service can also be established manually if the eBiker has had a fall.

Help Connect is currently only available for users with German SIM cards and the service is in German and English. It is available in eleven countries: Germany, Austria, Switzerland, France, Belgium, Netherlands, Luxembourg, Great Britain, Ireland, Italy and Spain.

Automatic crash detection



Help Connect





Compatible with



Connected Biking with



Lock

Intelligent additional theft protection

Park your eBike and enjoy a bit of carefree downtime – the new 'Lock' premium function makes the Kiox on-board computer and Nyon (from model year 2021 onward) the key to greater security. 'Lock' enables you to disable motor support by removing the on-board computer. The lock only unlocks again when the same

on-board computer is re-connected. The display and acoustic signals indicate whether 'Lock' is monitoring the eBike. Thus, 'Lock' is the ideal complement to a mechanical lock. The service is installed and billed by means of an app.

The facts

- ▶ App set-up: Once it has been purchased via the eBike Connect smartphone app, the 'Lock' premium function can initially be set up with the Kiox or Nyon on-board computer on the eBike.
- ▶ Using the on-board computer as a key: 'Lock' is simply activated and deactivated by connecting and disconnecting the on-board computer - simply lock it and then re-start it again just as easily.
- ▶ One glance is all it takes: Lock status is displayed on the screen of the on-board computer. This ensures that the owner knows immediately that the eBike is secured.
- ▶ Unmissable: As with the central locking on a car, audible feedback tells you whether Lock has been activated or deactivated. The acoustic signals can be switched on and off in the app.
- ▶ The right on-board computer: Lock is available for Kiox and Nyon (from model year 2021 onwards). The eBike can only be unlocked with the on-board computer with which the Lock feature was set up via the app.
- ▶ Making reselling harder for thieves: If 'Lock' is activated, it is no longer possible to ride with motor support.



Lock with Nyon



Lock with Kiox

eShift



Integrated gear shifting, relaxed riding

The integrated, electronic eShift gear shifting solution ensures more riding comfort and a longer range. Together with enviolo, Rohloff and Shimano, Bosch eBike Systems has developed various electronic gear shifting solutions that provide a host of benefits whether you're on the road or trail. Brief throttling of

the motor during the gear shifting operation allows smooth, synchronised gear changes. The selected cadence or current gear setting are shown on the Bosch display. For precise, reliable gear shifting and greater riding enjoyment.

enviolo

Simply 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 eBikers to ride with a constant cadence, while the system shifts gears smoothly and automatically for them, even under full load.

- ▶ Adjustable cadence from 30 to 120 revolutions per minute
- ▶ Adjustments are made via the control unit of the on-board computer, enabling quick changes while on the move
- ▶ Shifting system: stepless
- ▶ Also suitable for Speed pedelecs up to 45 km/h



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

- ▶ Quick, precise gear changes for a sporty riding sensation
- ▶ A multi-shift function allows you to shift three gears at once for fast acceleration
- ▶ Auto-downshift function for easy starts
- ▶ Shifting system: 14 gears
- ▶ Also suitable for Speed pedelecs up to 45 km/h

SHIMANO Di2

Di2 is Shimano's platform for electronic gear shifting with a wide range of solutions for different applications and eBike types:

- NEW** ▶ The Shimano XTR Di2 or Shimano Deore XT Di2 manual electronic derailleur gear systems for sports use, for example for eMountain bikes.
- NEW** ▶ The Shimano Ultegra Di2 and Shimano GRX Di2 manual electronic derailleur systems especially for eRoad and eGravel bikes.
- ▶ The Shimano Nexus 5 and 8-speed Di2 and Shimano Alfine 8-speed Di2 automatic hub gear systems for use in the city or for trekking tours.
- ▶ The Shimano Alfine 11-speed Di2 is available as a manual electronic version with auto-downshift function.

 **WATCH THE VIDEO AT**
bosch-ebike.com/eshift



Compatible with



Intuvia



Kiox



Nyon

eShift explained

Manual or automatic gear shifting is available according to your preference. The individual solutions and applications are explained below.

enviolo

enviolo AUTOMATIO

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 automatically shifts gears based on the rider's cadence - even when the drive is at full power on an uphill stretch.

Characteristic:
convenient



Hub gear system



Automatic gear shifting



Stepless gear ratio



Cruise/Speed

SHIMANO

Nexus Di2 + Alfine Di2

Is Shimano with the hub gear system 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 changes according to the rider's cadence and pedal force.

Characteristic:
Comfortable



Hub gear system



Manual/
automatic
gear shifting



Single shift



Defined
gears



Cruise

NEW

SHIMANO

XT Di2, XTR Di2, GRX Di2, Ultegra Di2

Is Shimano with derailleur system the right system for you?

Yes, if you want to select the gears manually and prefer a sporty riding sensation, but still want an electronic gear shift system.

Characteristic:
Very sporty



Derailleur
system



Manual gear
shifting



Single shift



Defined
gears



Cruise



E-14 Speedhub 500/14

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.

Characteristic:
Comfortable/sporty



Hub gear system



Manual gear
shifting



Single shift/
Multishift



Defined
gears



Cruise/Speed

Safety comes first!

Minimise risks,
maximise riding enjoyment

Bosch eBike Systems provides innovative and inspiring mobility solutions. For people who want to get around in a relaxed, sustainable and above all, safe way. For more riding enjoyment.

Risk:

Sudden braking in traffic

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



Solution:

The smart **eBike ABS from Bosch** is the first standard Anti-lock Braking System for pedelecs to reach the market. The front wheel ABS optimises the riding stability and manageability of the eBike during braking. The rear wheel lift control of Bosch eBike ABS reduces the chances of the rear wheel lifting off the ground.



Risk:

Accidents

The first few minutes are vitally important when an accident happens. However, valuable time is often lost before someone finds the pedelec rider who has crashed and the emergency services have identified the location of the accident.



Solution:

Help Connect, a new premium function available with the COBI.Bike smartphone app, can be relied upon to provide quick assistance: In the event of an accident, a service team that can be reached around the clock will be alerted to support the eBiker and, in an emergency, the rider's location will be forwarded to the emergency services.



Risk:

Inadequate protection

Only **60%**
of eBikers wear protective headgear while biking (up to 25 km/h).¹

Up to **70%**
of head injuries in accidents can be prevented by wearing a helmet.²



Solution:

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:

The dangers of manipulation

People who "tune" their eBikes endanger not only themselves, but also other road users. Use on public roads may lead to insurance infractions and criminal prosecutions. Warranty claims may even be voided completely. As a general rule, using the system improperly will also reduce the service life of individual eBike components and the eBiker risks causing damage to the drive unit and pedelec.



Solution:

The **software** of the Bosch eBike systems makes tuning very difficult. If manipulation is detected, the pedelec switches to emergency mode and powers down support. This protects the system and discourages manipulation.



Risk:
Theft

When out and about with an eBike, riders need to know that they can park it safely and securely. The mechanical lock is the basis for protecting against theft – outside a restaurant for example, or in front of the office.



Solution:

The 'Lock' premium function is the ideal complement to a mechanical lock. 'Lock' makes the Kiox or Nyon on-board computer the key to greater security. Disconnecting the on-board computer deactivates motor support and 'Lock' is only released again automatically when the same on-board computer is reconnected.

Risk:
Sufficient energy

Some people interested in eBikes are sceptical that the energy provided by the eBike battery is actually sufficient for their purposes.

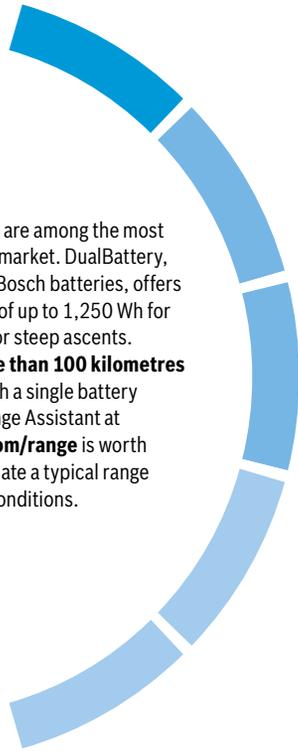
See the Bosch Battery Guide for and maintaining the batteries can be found in the Bosch Battery Guide.



Solution:

Bosch batteries are among the most efficient on the market. DualBattery, combining two Bosch batteries, offers energy content of up to 1,250 Wh for long distances or steep ascents.

Ranges of more than 100 kilometres are possible with a single battery charge. Our Range Assistant at bosch-ebike.com/range is worth visiting to calculate a typical range under various conditions.



Risk:
Faults on the eBike

Lack of regular maintenance increases the safety risk.



Solution:

The specialist dealer sets a **regular service schedule** with the aid of the service interval display.



Risk:
Feeling unsteady on the bike

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



Solution:

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



Source:

¹ Accident Prevention Advisory Centre Survey 2016: Helmet use among cyclists on public roads.
² The potential safety of cycling helmets (Final Report), Research Project for HFC Human-Factors-Consult GmbH.

 **VISIT THE WEBSITE**
bosch-ebike.com/safety 

eBike service

ALWAYS THERE FOR OUR CUSTOMERS

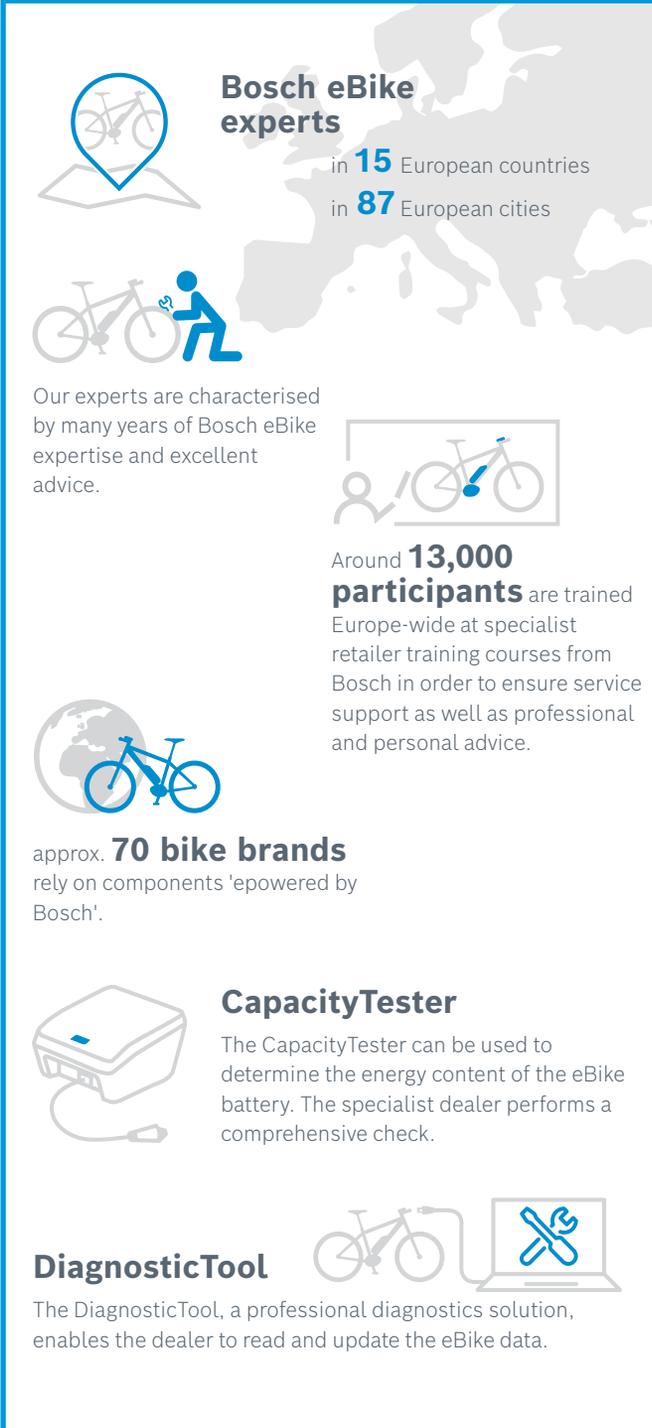
Service is more than a promise. It's an attitude. Because Bosch eBike Systems knows that every product is only as good as its service. That's why specialist dealers and workshop staff receive extensive training to turn them into eBike specialists, thus guaranteeing the best possible service. Whether you need personal advice, regular software updates or comprehensive all-round checks: Enjoy that special riding sensation – and leave the rest to us.



BOSCH eBike Expert

Competent service in the vicinity

Quality through technical expertise



Bosch eBike experts
in **15** European countries
in **87** European cities

Our experts are characterised by many years of Bosch eBike expertise and excellent advice.

Around **13,000 participants** are trained Europe-wide at specialist retailer training courses from Bosch in order to ensure service support as well as professional and personal advice.

approx. **70 bike brands** rely on components 'powered by Bosch'.

CapacityTester
The CapacityTester can be used to determine the energy content of the eBike battery. The specialist dealer performs a comprehensive check.

DiagnosticTool
The DiagnosticTool, a professional diagnostics solution, enables the dealer to read and update the eBike data.

A team of ready-to-help experts are always available by way of qualified specialist eBike dealers. Good advice is perfectly customised to your requirements – even after you have purchased an eBike.

DiagnosticTool

The dealer can use the DiagnosticTool, a professional diagnostics solution, to read and update the eBike system data. In addition, individual configurations (e.g. activating/deactivating walk assistance or the light function) can be made on the eBike. The latest software updates install the latest features to ensure the full functionality of the eBike system. In addition, the configuration data and error codes of the eBike components can be read out and tuning can be detected. The diagnostic report shows the current status of the Bosch eBike components and – like a service log - records the work carried out on the eBike.



Retrofitting and software updates

Take advantage of the full potential of your eBike

Bosch eBike Systems offers a comprehensive and reliable after-sales service. Both new and older eBikes can be upgraded further with a variety of accessories and retrofitting options.



Drive units

Software updates bring the drive units up to date and thus enable impressive performance enhancements - for example the Performance Line CX's maximum torque has been increased from 75 to 85 Nm with effect from model year 2021.

Displays

The Intuvia, Kiox and Nyon on-board computers and the SmartphoneHub smartphone solution are all available as retrofit kits. In addition, new functions and new maps can be downloaded via software updates.

Chargers

The various Bosch chargers allow you to charge your batteries as and when you need to. Thus, the Fast Charger reduces charging times, while the small, lightweight Compact Charger is ideal for longer eBike trips. Specialist dealers will be happy to advise you on which charger is most suitable for which usage profile.

Rechargeable batteries

More power with a new, stronger battery or a second battery? Bosch batteries can be purchased directly from specialist dealers.

Update now

If you want to keep your eBike system up to date at all times you should perform regular software updates. This is the only way to make use of the continuously enhanced smart functions, the latest maps and continuously improved motor control. The specialist dealer is available

to provide advice and assistance when you need to update drive units or replace batteries. This allows the full range of eBike system functions to be used – and the eBike is always up to date.

Repair

Questions and Answers

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

If an eBike fitted with a Bosch drive system develops a defect related to the Bosch eBike drive, a professional bicycle retailer specialising in eBikes is the right contact. These retailers will have the appropriate specialist 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: Is this a solution for faulty batteries?" Bosch eBike batteries must never be opened - not even if the repair is carried out by a third party. Opening the battery always means interfering with the condition approved by Bosch and entails safety-related risks. Further important information about safety risks and dangers of battery repairs can be found in the Battery Guide from Bosch eBike Systems. A defective battery must always be replaced. Opening, modifying the batteries or other manipulation of the battery can even void warranty claims. Any questions about the battery should be directed first to the specialist retailer, who will get in touch with the Bosch service department if necessary.

Can used batteries be used?

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

Alternative replacement parts for the Bosch eBike system?

"Low-cost spare parts for the Bosch system are sold online, but they are not manufactured by Bosch. Can these be used?" Bosch eBike Systems advises that only genuine Bosch parts should be used. The software and hardware used in Bosch eBike systems are perfectly adapted to one another in order to guarantee efficiency and safety.



MORE FAQs
bosch-ebike.com/FAQ



Test bench measurement R200

In order to be able to measure the range of eBikes in a standardised way for comparison purposes, Bosch eBike Systems, working in cooperation with ZIV (Germany's bicycle industry association) and other companies from the bicycle industry, has developed "standardised range test R200". This will enable manufacturers, dealers and customers to compare the range of different eBikes on an objective basis.

The same conditions for transparent values

Previous test results for eBike range depended heavily on the rider and the external conditions (rider weight, tyres, air pressure, surface, weather, etc.). The R200 measurement method compares eBike performance with a uniform support factor of 200% (hence the name: R200). This means that the tested drive system supports an average rider performance of 70 watts with 140 watts, which corresponds to a medium to high support factor.

R200 provides practical comparison

The result of the test is a specific indication of how many kilometres an eBike will cover under these standard conditions. However, manufacturers need to test each model individually using the R200 method. The operator simply enters the values from the list of requirements.



FURTHER INFORMATION
bosch-ebike.com/r200



ZIV

Zweirad-Industrie-Verband



Sustainability

On board right from the start



"Invented for life" is the Bosch claim. Even during the development of a product, everything revolves around the question of how it can improve people's quality of life, minimise environmental pollution and how to reduce the consumption of resources even further in our work. Bosch eBike Systems is particularly committed to this aim.

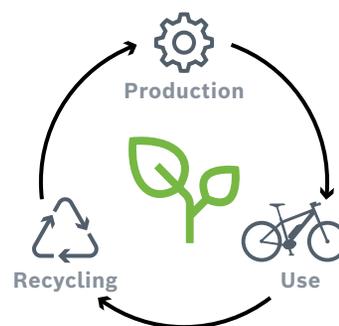
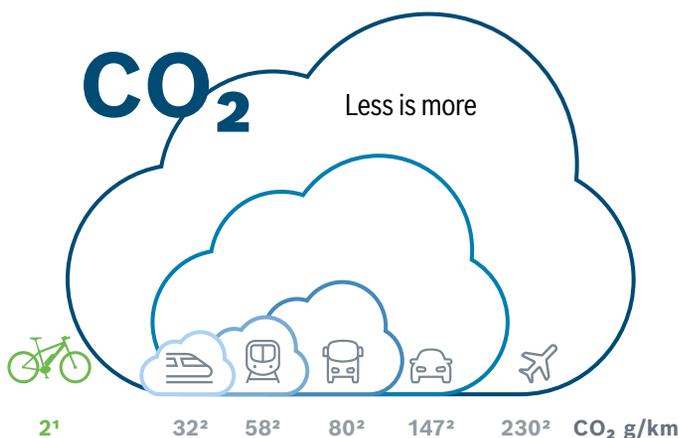
Sustainable mobility

The pedelec allows individual travel that is healthy, ecological and fun all at the same time. It is the pioneer of electro-mobility – and a response to resource scarcity, climate change, urbanisation and rising emissions. Pedelecs are an effective and efficient means of transport, particularly over short distances. People who ride eBikes get around faster, cheaper and with less environmental impact. At the same time the eBike expands the options available with the bicycle. Longer distances and bigger climbs are easier to manage with electric support, so pedelecs are being used more often and for longer distances. They also offer plenty of benefits as transport solutions - eCargo bikes are practical and space-saving and enable fast, clean mobility.

Sustainable use of raw materials

The CO₂ footprint of an eBike is largely determined by the production, use and recycling of the battery. The longer an eBike is used and the more trips by other means of transport it replaces, the better for the environment. To ensure that valuable raw materials can be reused at the end of its service life, the battery must be properly recycled. Specialist dealers will take back used batteries and return them to the recycling system.

However, eBikers themselves can also help to minimise their CO₂ footprint. Correct handling and appropriate storage can significantly extend the service life of the battery.



Bosch aims to become completely climate-neutral.

From 2020, the more than 400 Bosch locations worldwide – from development and production to administration – will no longer have a carbon footprint. Of course this also includes all Bosch eBike Systems locations.

¹ CO₂ emissions from a pedelec in use, source: internal calculations.

² CO₂ equivalents of emissions, source: Federal Environment Agency.

eBike tourism

Defying limits, experiencing freedom

The eBike makes every journey an experience. Whether for small everyday escapes, city trips or extended rides – it has never been easier for holiday-makers to actively explore their surroundings. Good infrastructure for eBikers is essential. That's why Bosch eBike Systems sets the pace in the various tourism projects it is involved in. For example, it

promotes more rental options at many destinations, free charging stations along popular routes and even greater safety on the roads. In addition, Bosch eBike customers will find countless routes available online for every type of ride. These include relaxed Sunday trips, as well as challenging holiday tours.

For a more sustainable holiday

Even on holiday, eBikes are the smart alternative to the car. Bosch eBike Systems supports sustainable tourism through various cooperative arrangements. Example: Steineggerhof in South Tyrol. If you arrive without a car, the owner of the eco hotel will be happy to pick you up from the train station. Also, those who wish to do so can hire the latest eBike models and enjoy sustainable mobility then and there.

For fascinating eBike routes

Whether around Berlin or in the South Tyrol – the Bosch ebike-connect.com online portal offers countless easy-to-follow tours that include points of interest, restaurants, picnic areas and charging stations.



"A well developed bicycle infrastructure is an important factor in the fascination of eBiking. We are committed to expanding charging stations and rental facilities in tourism regions, so that eBikers can find optimum conditions for their holidays."

Claus Fleischer
CEO of Bosch eBike Systems



VISIT THE WEBSITE
bosch-ebike.com/tourism



For a free charging infrastructure

eBikers can enjoy the benefits of an increasingly close-knit network of Bosch PowerStations along popular bike tour routes in Germany, France, Italy and Switzerland. This means that breaks from riding can be used as an opportunity to charge the eBike battery, free of charge. An overview of currently available PowerStations can be found at bosch-ebike.com/powerstations.

For better riding technique and more riding fun

To inspire even more people to try eBiking, Bosch is involved in training trainers and guides in numerous European countries, such as Switzerland and Germany. These ensure that people get more fun out of their eBikes, while also promoting safe handling of the eBike and unforgettable eBike experiences.



Technical details

Drive units



	Active 25 km/h	Active Plus 25 km/h	Cargo Cruise 25 km/h	Cargo Speed 45 km/h	
Gear type	Derailleur system/hub gear system	Derailleur system/hub gear system	Derailleur system/hub gear system	Derailleur system	
Support level (%)	Turbo: 250 Sport: 170 Tour: 100 Eco: 40	Turbo: 270/250 Sport: 180/170 Tour: 100 Eco: 40	Turbo: 400 Sport: 240 Tour: 140 Eco: 60	Turbo: 400 Sport: 240 Tour: 140 Eco: 60	
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: 50 Sport: 45 Tour: 40 Eco: 35	Turbo: 85 Sport: 60 Tour: 50 Eco: 40	Turbo: 85 Sport: 60 Tour: 50 Eco: 40	
Maximum cadence (rpm) with drive support	100	105	>120	>120*	
Start-up behaviour	smooth	smooth and agile	powerfully	powerfully	
Max. support up to	25 km/h	25 km/h	25 km/h	45 km/h	
Backpedal function	no/optional	no/optional	no	no	
Gear shift detection	yes/no	Yes/No	yes/no	yes	
Weight approx.	2.9 kg	3.2 kg	2.9 kg	2.9 kg	

* Deviations due to regional requirements.

** In the case of the Performance Line and Performance Line CX, eMTB mode can replace Sport mode.

It can be activated/deactivated by the bicycle manufacturer and the specialist dealer. In eMTB mode, the support level varies between the Tour and Turbo riding modes.

*** Deviations in driving torque and max. support are possible depending on the hub gear system.

Batteries



	PowerPack 300	PowerPack 400	PowerPack 500	
Mounting type	Frame Luggage rack	Frame Luggage rack	Frame Luggage rack	
Voltage	36 V	36 V	36 V	
Nominal capacity	8.2 Ah	11.0 Ah	13.4 Ah	
Energy content approx.	300 Wh	400 Wh	500 Wh	
Weight approx. Frame battery: Rack battery:	2.5 kg 2.6 kg	2.5 kg 2.6 kg	2.6 kg 2.7 kg	
Dimensions (L × W × D) Frame battery/rack battery Horizontal/vertical	325 x 92 x 90 mm 372 x 122 x 80 mm	325 x 92 x 90 mm 372 x 122 x 80 mm	325 x 92 x 90 mm 372 x 122 x 80 mm	
Compatible with DualBattery	○	●	●	



	Performance Cruise 25 km/h		Performance Speed 45 km/h	Performance CX 25 km/h
	Derailleur system	Hub gear system	Derailleur system	Derailleur system/hub gear system***
	Turbo: 300 Sport**: 200 Tour: 120 Eco: 55	Turbo: 300 Sport: 200 Tour: 120 Eco: 55	Turbo: 340 Sport: 240 Tour: 140 Eco: 60	Turbo: 340 eMTB**: 140-340 Tour: 140 Eco: 60
	Turbo: 65 Sport**: 60 Tour: 45 Eco: 35	Turbo: 65 Sport: 50 Tour: 45 Eco: 35	Turbo: 85 Sport: 60 Tour: 50 Eco: 40	Turbo: 85 eMTB**: 85 Tour: 50 Eco: 40
	>120	>120	>120*	>120
	Sporty	Dynamic	Sporty	Very sporty
	25 km/h	25 km/h	45 km/h	25 km/h
	no	optional	no	no
	yes	no	yes	yes (dynamic)
	3.2 kg	3.2 kg	2.9 kg	2.9 kg



	PowerTube 400	PowerTube 500	PowerTube 625
	In the frame: horizontal/vertical	In the frame: horizontal/vertical	In the frame: horizontal/vertical
	36 V	36 V	36 V
	11.0 Ah	13.4 Ah	16.7 Ah
	approx. 400 Wh	approx. 500 Wh	approx. 625 Wh
	2.9 kg	2.9 kg	3.5 kg
	349 x 84 x 65 mm 349 x 65 x 84 mm	349 x 84 x 65 mm 349 x 65 x 84 mm	416 x 84 x 65 mm 416 x 65 x 84 mm
	○	●	●

Technical details

Displays



	Kiox	Nyon	SmartphoneHub
Hardware Facts	<ul style="list-style-type: none"> ▶ Transmissive 1.9-inch colour display made from damage-resistant glass (208 × 274 pixels, 29 × 39 mm active range) ▶ Operation via the separate Remote Compact control unit ▶ Walk Assist button on the separate Remote Compact control unit ▶ The display mount is installed on the stem or the bicycle manufacturer has developed a specific holder solution using the modular mounting plate ▶ Two buttons for on/off and light directly on the display ▶ Ambient light sensor automatically controls the display's backlight ▶ Integrated rechargeable battery delivers power in off-board mode for approx. 20 minutes; on-board it is charged from the eBike battery ▶ When the IPX7 USB cap is closed, it is protected against brief immersion in water ▶ Micro-AB-USB port for eBike system diagnostics by the dealer and for charging the Kiox battery and external devices, e.g. compatible smartphones ▶ Temperature range: -5 °C to +40 °C (operation) and +10 °C to +40 °C (in storage) 	<ul style="list-style-type: none"> ▶ Transmissive 3.23-inch TFT colour display with touch functionality (384 × 454 pixels, 16 million colours, 52 × 64 mm) ▶ Approx. 6 GB available memory ▶ Optimised anti-reflex coating ▶ Operation via the separate Remote Compact control unit ▶ Two buttons for switching on/off and light ▶ Walk Assist button on the separate Remote Compact control unit ▶ Two installation positions ▶ Integrated high-precision GNSS navigation module ▶ Fast double-core processor ▶ High-resolution barometric pressure sensor ▶ Ambient light sensor automatically controls the display's backlight ▶ Integrated rechargeable battery delivers power in off-board mode for approx. 30 minutes; on-board it is charged from the eBike battery ▶ When the IPX5 USB cap is closed, it is protected against the elements ▶ Micro-AB-USB port for eBike system diagnostics by the dealer and for charging the Nyon battery ▶ Temperature range: -5 °C to +40 °C (operation) and -10 °C to +40 °C (in storage) 	<ul style="list-style-type: none"> ▶ Dimensions: 33 x 93 x 68 (H x W x D) ▶ Weight: approx. 120 g ▶ Integrated 1.52-inch LC display (192 x 64 pixels) ▶ Universal smartphone mount with a width of 58.6 - 78.1 mm (including the smartphone case if necessary), optional mount especially for iPhones ▶ The smartphone can be charged via the supplied USB cable on the hub or directly using an iPhone mount (accessory) ▶ Operation via the separate Remote Compact control unit Walk assistance button on the separate Remote Compact control unit ▶ The battery integrated in the SmartphoneHub delivers approx. 2.5 hours of power without an eBike rechargeable battery; otherwise SmartphoneHub is charged from the eBike battery ▶ Ambient light sensor automatically controls the display's backlight ▶ When the IP54 USB cap is closed, it is protected against dust and splashes ▶ Walk Assist button on the separate Remote Compact control unit ▶ Temperature range: -5 °C to +40 °C (operation) and +10 °C to +40 °C (in storage) ▶ Light control via the separate Remote Compact control unit or smartphone ▶ Micro-AB-USB port can be used by specialist dealers to perform diagnostic tasks on the eBike system and also to charge the smartphone
Connectivity Facts	<ul style="list-style-type: none"> ▶ Recording activities ▶ Smartphone app for compatible smartphones: Android version 5.1 or higher and iOS version 10 or higher ▶ The activity list and details of the relevant activity are displayed in the app ▶ Bluetooth connectivity (Bluetooth 4.2 Low Energy), e.g. for heart rate monitors ▶ Software update via app 	<ul style="list-style-type: none"> ▶ Synchronisation via WiFi or Bluetooth Low Energy ▶ Smartphone app for compatible smartphones: Android version 5.1 or higher and iOS version 10 or higher ▶ Online portal (dashboard, activities, route planning) ▶ Bluetooth connectivity to compatible smartphones ▶ Bluetooth connectivity (Bluetooth 4.2 Low Energy), e.g. for heart rate monitors 	<ul style="list-style-type: none"> ▶ Emergency call – intelligent algorithm for detecting impacts and issuing alarms in the event of an accident (optional)* ▶ Smartphone app for compatible smartphones (Android: at least 5.0; iOS: at least 11.2) ▶ Bluetooth connectivity (Bluetooth 4.1 Low Energy) ▶ 2D/3D offline navigation ▶ MinuteCast™: Information on the latest weather conditions, including likelihood of rain ▶ Fitness tracking with voice output, average values and individual fitness ranges ▶ Automatic route and fitness tracking via komoot, Strava, Apple Health and Google Fit ▶ Control of audio apps such as Spotify and Audible, as well as podcasts. Volume control is achieved via the separate control unit ▶ Make calls ▶ Update the SmartphoneHub software via the COBI.Bike smartphone app

* Help Connect is currently only available for users with German SIM cards and the service is in German and English. It is available in eleven countries: Germany, Austria, Switzerland, France, Belgium, Netherlands, Luxembourg, Great Britain, Ireland, Italy and Spain.

Technical details

Chargers



	Compact Charger	Standard Charger	Fast Charger*
Charging current	max. 2 A	max. 4 A	max. 6 A
Voltage	100–240 V	220–240 V	220–240 V
Size approx.	160 x 75 x 45 mm	190 x 86 x 54 mm	200 x 90 x 60 mm
Cable lengths approx.	AC input: 1.5 m, DC output: 1.0 m	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	Country-specific power plug
Weight approx.	600 grams	800 grams	1000 grams
Compatibility	Active Line/Active Line Plus/Cargo Line/Performance Line/Performance Line CX/Classic + Line compatible using adapter plug		



	Charging time		
PowerPack 300	5.0 h	2.5 h	2.5 h
PowerPack 400/ PowerTube 400	6.5 h	3.5 h	2.5 h
PowerPack 500/ PowerTube 500	7.5 h	4.5 h	3.0 h
PowerTube 625	8.8 h	4.9 h	3.7 h
DualBattery 1250	17.6 h	9.8 h	7.4 h

* Charging current is limited to 4 A for the PowerPack 300 and Classic + Line batteries.



Bosch eBike ABS

Functionality	<ul style="list-style-type: none"> ▶ Anti-lock function on the front wheel; enhanced riding stability and control ▶ Rear wheel lift control; reduced risk of crashing over the handlebar in critical braking situations ▶ More efficient braking through regulated use of the front wheel brake in braking situations
Area of application	<ul style="list-style-type: none"> ▶ 25 km/h and 45 km/h ▶ 28 inch trekking and city/urban
Brakes	<ul style="list-style-type: none"> ▶ Magura CMe ABS hydraulic disc brakes
Total weight	<ul style="list-style-type: none"> ▶ approx. 800 grams
Miscellaneous	<ul style="list-style-type: none"> ▶ Power supply (12 V) via the Bosch eBike System ▶ Control light for quick recognition of ABS status (separately or integrated into the on-board computer for Kiox and Nyon starting from model year 2021)

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