

Products 2020



BOSCH
Invented for life

TAKING RIDING ENJOYMENT TO A WHOLE NEW LEVEL

FEEL THE FLOW

Bosch eBike Systems | NZ
bosch-ebike.com/nz/



Content

10 years of Feel the Flow	4	Purion	52	eBike Safety	72
Product Overview	6	Intuvia	53	Lock	75
Product Finder	10	Kiox	54	eBike Safety	76
Active Line	14	SmartphoneHub	58	Service + Technology	78
Active Line Plus	20	Batteries + Chargers	62	Service	80
Cargo Line	26	Charging Times	64	Questions and Answers	81
Performance Line	32	PowerPacks	65	Technical Details	82
Performance Line CX	40	PowerTubes	66	Test Bench Measurement R200	85
eMTB mode + Uphill Flow	46	DualBattery	68		
Displays	48	Chargers	69		
Displays + Riding modes	50	eShift: Electronic Gear Shifting	70		

SETTING THE STANDARD FOR THE MOBILITY OF THE FUTURE

#FeelTheFlow

For 10 years, we have been setting the standard with drive systems and innovative solutions for pedelecs. We are driven by our love of the eBike experience every day. A modern, flexible and sustainable form of mobility – a unique lifestyle. We are already thinking of the mobility of tomorrow today: Let's take the flow to the next level!



"Our goal for the future is to continue to develop innovative solutions for bicycle mobility and to inspire people. To this end, we aim to continue to develop pioneering products and services that promote a 'connected biking' experience."

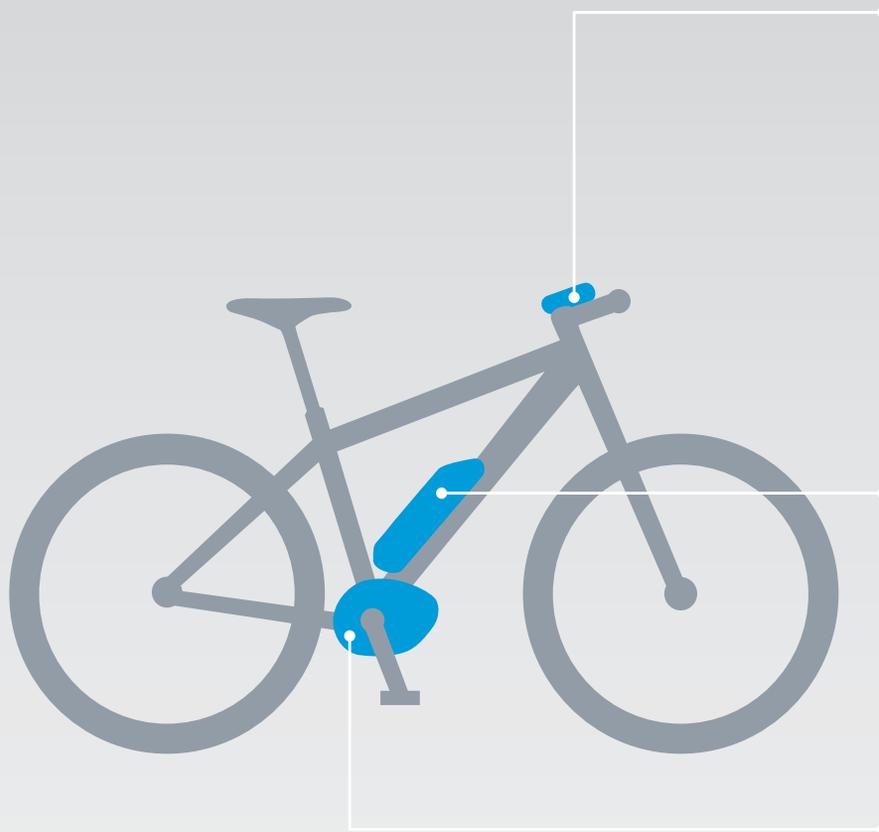
Claus Fleischer
CEO of Bosch eBike Systems



Bosch eBike Systems

Overview

Drive units, displays and batteries: The individual components have been developed so that they are perfectly matched and work together in harmony. This results in maximum efficiency and comfort – for a unique riding sensation. Feel the Flow.



Displays

Exactly the amount of information you need. Purion displays all the basic information at the click of a thumb. Intuvia guarantees you easy and intuitive control of your eBike and gives you a view of all riding data at all times. The new compact and connected Kiox provides ambitious, sporty riders with the perfect companion on every trail. The new SmartphoneHub, in conjunction with the COBI.Bike app, also connects your eBike to the digital world.



Batteries

Whether for relaxed cruising, your daily commute to work or ultimate Uphill Flow – Bosch rechargeable batteries deliver power for every task. PowerTube and PowerPack impress with their high energy density, great mileage, long service life, light weight and they are all easy to handle. In addition to the PowerTube 500, the PowerTube is now available in two other versions: the PowerTube 400 and PowerTube 625, giving you the option for even longer ranges and higher altitudes.



Drive Units

The Drive Unit of the Bosch eBike system is available in Active, Active Plus, Cargo, Performance and Performance CX variants. The Performance Drive Unit is also available in a Speed variant that delivers support up to 45 km/h. Regardless of whether you are in the flow as you ride across the city, carrying cargo, or negotiating trails or alpine terrain: with the right Drive Unit, every bike ride will be your very own, enthralling eBike experience.

Drive Units



reddot award 2017 winner



Active Line

Enjoy cycling in the city, even at rush hour: The controlled acceleration and natural riding sensation at over 25 km/h (Cruise) or 32 km/h (Sport) or when switched off turns every trip into an experience. The low-noise Drive Unit fits perfectly inside the bicycle frame and its modest overall weight of 2.9 kg improves the bike's handling.



reddot award 2017 winner



Active Line Plus

Brings enjoyment to everyday riding: Quiet, reliable and with a barely noticeable pedal resistance over 25 km/h (Cruise) or 32 km/h (Sport) it couldn't be easier to increase the radius available to you for spontaneous excursions. The power of the Active Line Plus Drive Unit is delivered smoothly to achieve a natural riding sensation.

NEW



Cargo Line

Transport made easy: With a separate product line for cargo bikes, Bosch eBike Systems sets new standards in the urban transport sector. With support up to 32 km/h, the Cargo Line is designed for a comfortable ride even when carrying a heavy load.

NEW



Performance Line / Speed

For limitless freedom: The new Performance Line delivers the right support at the right moment. There are three variants: The quiet, lightweight Performance Cruise Drive Unit provides support up to 25 km/h and Sport variant provides support up to 32 km/h for a natural sporty riding sensation. The Performance Line Speed Drive Unit speeds up your daily routines, even at higher cadences, with even more power and a torque of up to 75 Nm and support up to 45 km/h.

NEW



reddot award 2019 winner

Performance Line CX

For the perfect Uphill Flow on every trail: At just 2.9 kg, the new Performance Line CX is the most powerful drive from Bosch. Developed for ambitious riders, it is lightweight and compact and offers a natural riding sensation. With up to 340% of perfectly delivered support and the power of eMTB mode, it takes the joy of eMountain biking to the next level.



Displays



Purion

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



Intuvia

Intuvia offers optimised ease of use: All riding data (speed, distance, trip time and range) can be called up at any time and the display is easy to read even in bright sunlight. The separate control unit enables the Intuvia to be operated with ease using just your thumb.



Kiox

The perfect choice for riders with sporty ambitions: robust, compact and connected. The colour display combines the classic functions of an on-board computer, while at the same time giving you access to the digital world via the eBike Connect smartphone app. Remote Compact offers comfortable and ergonomically efficient operations.

NEW



SmartphoneHub

For fully connected eBikes: Thanks to the smartphone and the COBI.Bike app, the new SmartphoneHub becomes an intelligent control centre for navigation, activities and other services. The integrated display shows the most important riding data, even without a smartphone attached.

Batteries



PowerPack 300 / 400 / 500

Whatever you are planning – Bosch has the perfect battery for any need. The Bosch PowerPacks 300, 400 and 500 are available as frame or rack batteries. The lightweight lithium-ion batteries are easy to install and remove. The PowerPack can also be charged on the eBike via the charging socket.



PowerTube 400 / 500 / 625

Bosch PowerTubes have the power to drive any ride and, thanks to their compact size and minimalist design, can be integrated with the eBike to ideal effect, either horizontally or vertically. The lithium-ion batteries can be integrated within the frame, ensuring carefree riding enjoyment, while a safety catch prevents the battery from falling out even on challenging terrain. New: The PowerTube 400 and PowerTube 625.



NEW



NEW

DualBattery 1000 / 1250

Ideal for touring bikers, long-distance commuters and cargo bikers. The combination of two new Bosch PowerTubes 625 batteries delivers up to 1,250 Watt hours. Intelligent energy management control software charges both batteries.

Chargers



Compact Charger ▲

▼ Standard Charger

Fast Charger ▲

Compact, Standard and Fast Chargers

Bosch chargers are handy, lightweight and robust. The housings are designed without vents to protect the chargers from dirt and grime. Wherever your journey may take you: With the 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.

Product innovations 2020



Performance Line / Speed

For limitless freedom: The new Performance Line delivers the right support for every ride, whether on sporty mountain rides or when commuting to work. It always offers a natural sporty riding sensation up to 25 km/h with Cruise and up to 32 km/h with Sport variant and, in the dynamic Speed variant, up to 45 km/h.



Cargo Line

For cargo transport: The new Cargo Line is specially designed for cargo bikes and makes goods easy and comfortable to transport. Whether laden or unladen, it allows controlled acceleration – up to 32 km/h.



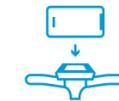
Performance Line CX

For the perfect Uphill Flow: The new Performance CX Drive Unit for eMountain bikes is the powerhouse among the drives. Weighing 2.9 kg and with a maximum torque of 75 Nm, it brings more riding enjoyment to the trail, despite its particularly compact size. The design is a recipient of the Red Dot Design Award.



Kiox

Small, robust and now connected too: All relevant riding data is recorded by Kiox and automatically transmitted via Bluetooth to the eBike Connect app to allow all activities to be checked and evaluated.



SmartphoneHub

Connected eBiking: Thanks to the smartphone and the COBI.Bike app, the new SmartphoneHub becomes an intelligent control centre that navigates, records activities and connects them to other services. The integrated display shows the most important riding data, so that you can start off and get riding even without a smartphone.



PowerTubes

Stylish riding enjoyment: The integrated rechargeable batteries provide enough power for any ride. Now available in two new variants: PowerTube 400 and PowerTube 625 – with even more power for maximum range and altitudes.



Lock

For an even greater feeling of security: The new premium function from Bosch is the ideal complement to a mechanical lock. Lock enables motor support to be deactivated by removing the Kiox on-board computer.



eSuspension

eSuspension for the Performance Line CX is the first time Bosch eBike Systems has teamed up with FOX to offer eMountain bikers an electronically controllable suspension designed for maximum comfort and fun on challenging terrain.



Tuning protection

Guaranteed Bosch original: The software of the Bosch eBike system closes the door on tuning. If manipulation is detected, the pedelec switches to emergency mode and powers down support. This protects the system and discourages manipulation.

Product Finder

Which is the best Bosch eBike system for which rider?

1. Riding style

What is your usual riding style and on what type of terrain do you usually use your eBike?

2. Product line

Which product line suits you best?

3. Displays

Which display offers the right functions?

4. Batteries and range*

The charts below provide an overview of battery range in relation to varying conditions:



City: Relaxed riding or commuting on surfaced roads or cycle paths as part of everyday life



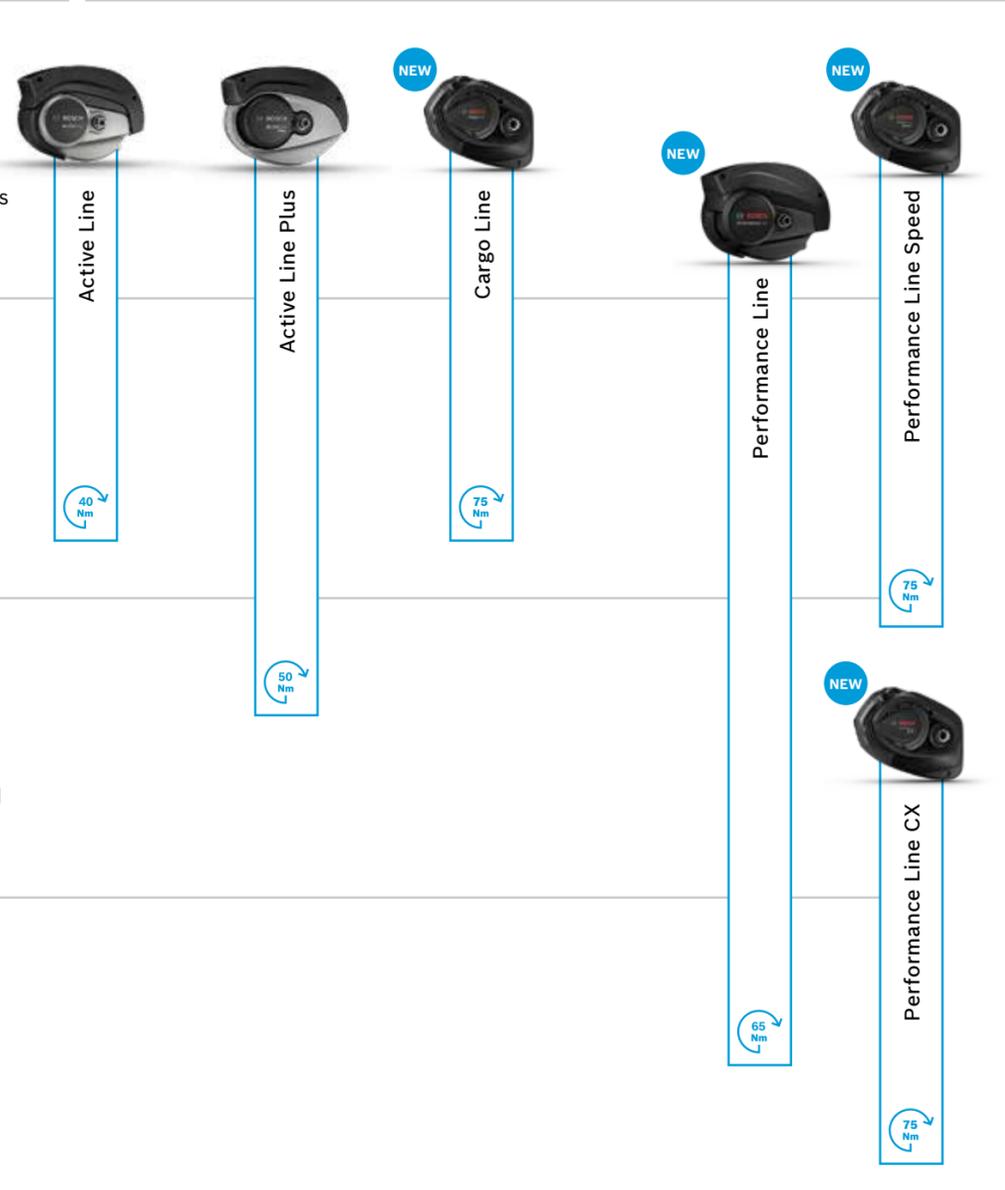
Suburban: Comfortable riding or commuting, primarily on surfaced roads and cycle paths with moderate inclines



Tours: Sporty riding and longer distances, predominantly on paved paths and roads



Mountains: Very sporty riding in challenging terrain on unpaved trails



	Purion	Intuvia	Kiox	SmartphoneHub
5 riding modes	●	●	●	●
Shift recommendation	○	●	○	○
Walk assistance	●	●	●	●
High resolution display	○	○	●	○
Integrated display	●	●	●	●
USB charging option	○	●	●	●
Splash-proof	●	●	●	●
Navigation	○	○	○	●*
Fitness tracking	○	○	●	●*
Compatible with eShift	○	●	●	○
Compatible with DualBattery	●	●	●	●
Third-party apps	○	○	●	●*
Theft protection	○	○	●	○

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

eBike Connect smartphone app

The eBike Connect app enables you to connect Kiox with the smartphone using Bluetooth technology. Settings can be changed. Kiox records GPS data, which is then combined with the riding data – for an overview and analysis of all activities in the app or in the eBike Connect online portal.

COBI.Bike smartphone app

The SmartphoneHub uses the COBI.Bike app to connect to the smartphone via Bluetooth. The app provides the eBiker with a fully integrated control centre – with real-time fitness data, ride planning and recording options, as well as voice output.

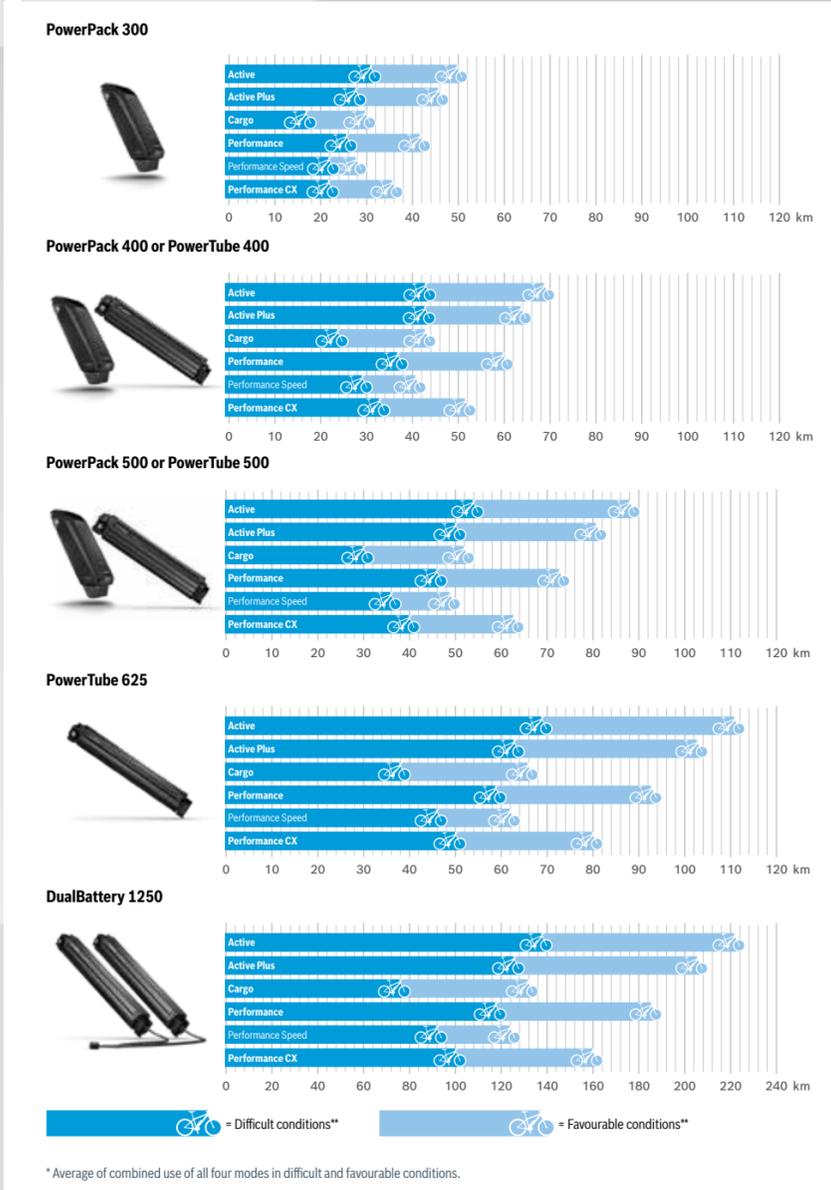
Additional features

eMTB mode
eMTB mode replaces the Sport mode of the Performance Line CX and can now also be used on eMountain bikes with Performance Line. It continuously switches between the Tour and Turbo riding modes for a natural riding sensation and maximum performance on the trail.

eShift
eShift is the integrated electronic gear shifting solution for anyone who wishes to focus on the essentials while eBiking.

Lock
The new premium function Lock for Kiox enables motor support to be deactivated by removing the on-board computer. The lock only unlocks again when the same on-board computer is re-connected. The service is installed and billed by means of an app.

eSuspension
Perfect coordination every time: E-Live Valve for the new Performance Line CX is the first time FOX offers eMountain bikers an electronically controllable chassis with Bosch eBike systems, which is designed for maximum fun on challenging trails.



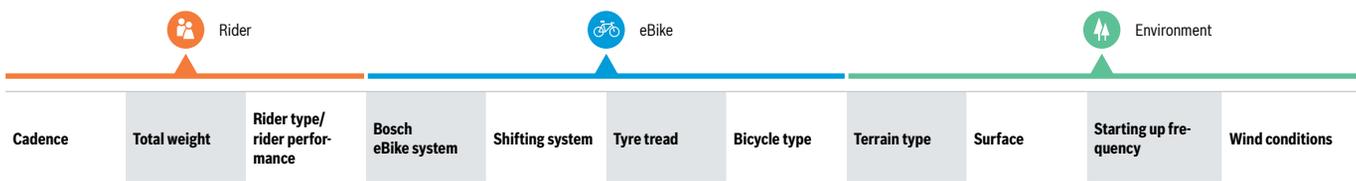
Range Assistant

The range of Bosch rechargeable batteries depends on numerous different factors. Range is influenced by the rider and the chosen support mode, as well as the drive or battery installed in the eBike. In addition, environmental factors such as temperature, wind conditions

and riding surface also play a key role in support range. Our range assistant enables eBikers to estimate a typical range under various parameters. The online tool will show important information on battery range in a visually appealing way.



Calculate the range yourself:
bosch-ebike.com/range



** The ranges are typical values for new rechargeable batteries and may decrease if one of the conditions listed above changes. Further details in relation to conditions can be found online.

Active Line  |  | 

TAKING THE PULSE OF THE CITY

FEEL THE FLOW

When the riding experience is just as relaxed as the feeling when you arrive. The smooth and quiet Active Drive Unit is the ideal companion for getting around town. The compactly designed Active Line supports the rider with up to 25 km/h with the Cruise and 32km/h with the Sport variant. The Drive Unit integrates elegantly with the bike frame, making handling easy, thanks to its light weight. The design is a recipient of the Red Dot Design Award. This is the stylish way to get around town – in the flow with the Active Line.

#FeelTheFlow #streetflow





Active Line

At a glance



reddot award 2017
winner

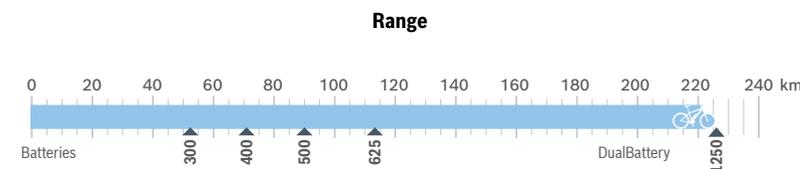
Smart support

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 (Cruise) and 32 km/h (Sport). The pedal resistance is barely perceptible 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.

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

Active Line Highlights

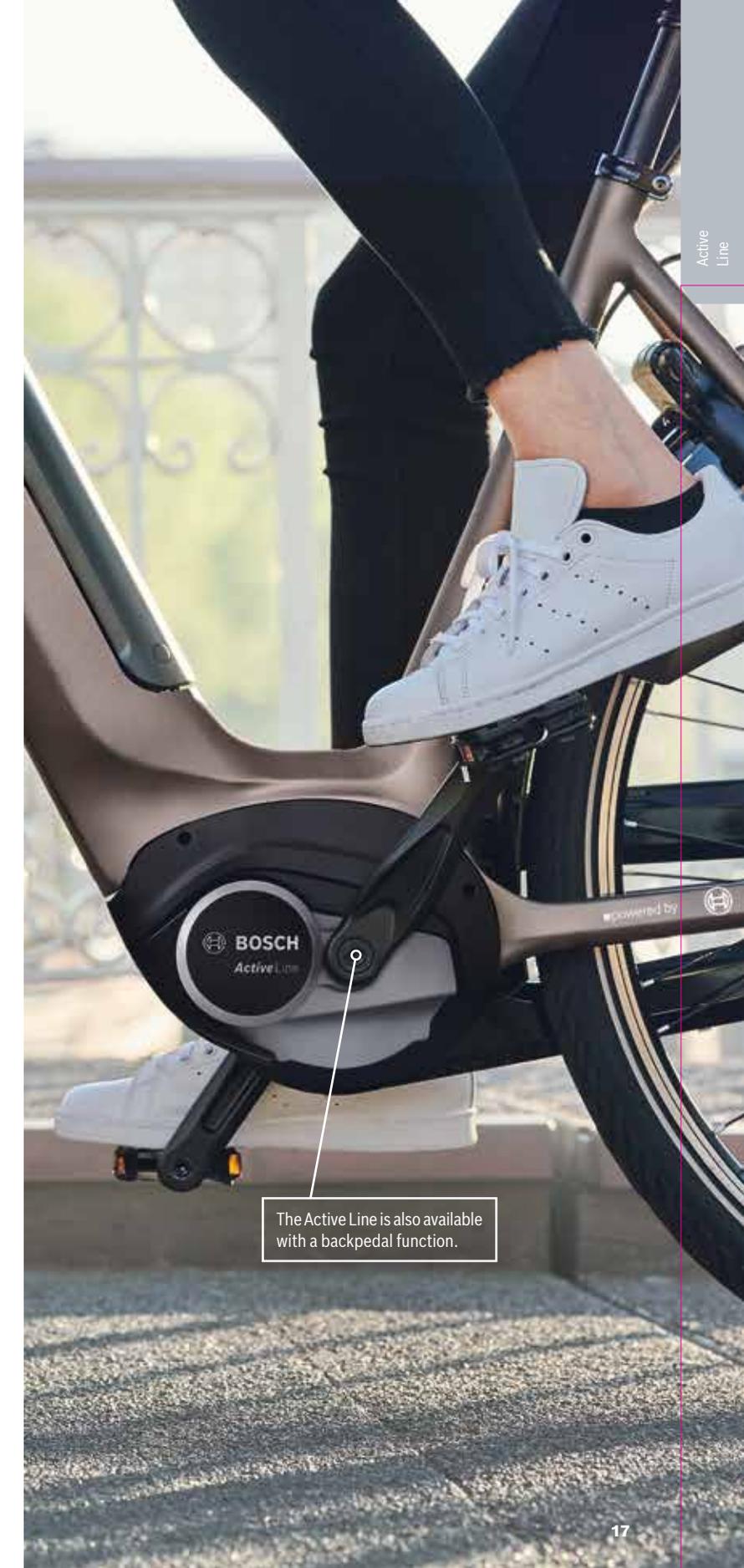
 40 Nm Maximum torque For controlled acceleration.	 250% Maximum support Gentle drive, perfect for city trips.	 25 km/h 32 km/h Cruise / Sport Drive Unit Smooth delivery of support up to a maximum of 25 km/h (Cruise) and 32 km/h (Sport).	 Backpedal function The Active Line is also available with a backpedal function.
--	---	--	--



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

The facts

- ▶ Helping to reduce traffic noise: The quiet motor provides even more riding enjoyment.
- ▶ Carefree cruising: Thanks to the innovative drive concept, the Drive Unit weighs just a modest 2.9 kg.
- ▶ Smart riding experience: The controlled acceleration with barely noticeable pedal resistance when switched off or at over 25 km/h (Cruise) and 32 km/h (Sport) ensures a natural riding sensation.
- ▶ Clean eBike look: Thanks to its compact size, the Active Drive Unit allows ideal integration within the bicycle frame.
- ▶ Easy handling: The modest weight and low centre of gravity of the Drive Unit enhances riding comfort.
- ▶ Relaxation on tour: The multi-sensor concept behind the Drive Unit takes more than 1,000 measurements per second to ensure a smooth power characteristic. The Active Line is also available with a backpedal function.
- ▶ 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.



 Technical details on page 82

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 care-free 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 companion on short journeys in town. A drive system for urban adventurers who want effortless, individual mobility.



Active Line Plus  |  | 

FOR EVERYDAY ADVENTURES

FEEL THE FLOW

The desire for new discoveries knows no bounds – even in the city. Active Line Plus brings mobility to everyday life and extends your boundaries for spontaneous exploratory trips. The quiet, small and powerful drive unit offers a major advantage in riding enjoyment. Lightweight and compact, it allows agile handling and fits perfectly inside the frame. Quiet, reliable and with barely perceptible pedal resistance over 25 km/h with the Cruise and 32km/h with the Sport variant – new experiences and discoveries await you.

#FeelTheFlow



Active Line Plus

At a glance



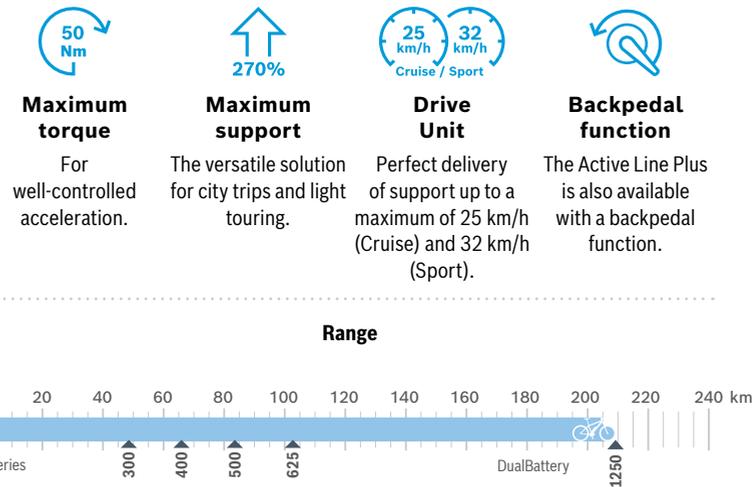
reddot award 2017 winner

The drive unit for explorers

Discover new places and give in to the charms of the great unknown. The especially quiet Active Line Plus eBike drive has been designed for little adventures like this – with barely perceptible pedal resistance over 25 km/h (Cruise) and 32 km/h (Sport) or when switched off. 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. This, combined with the lighter weight and compact size, means the drive unit can be integrated perfectly into the bicycle frame. Giving you noticeably more enjoyment from eBiking.

- ▶ Optimal support for excursions – including beyond city limits.
- ▶ This quiet, small yet powerful drive unit offers an advancement in riding enjoyment, as well as improved handling.

Active Line Plus Highlights



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

The facts

- ▶ Natural riding sensation: Controlled acceleration offers an authentic riding sensation – with barely perceptible pedal resistance at over 25 km/h (Cruise) and 32 km/h (Sport) or when switched off.
- ▶ Pure riding enjoyment: The Bosch motor is very quiet and reliable, enabling you to concentrate on the essentials.
- ▶ Carefree experience: The innovative drive concept of the Active Line Plus helps reduce weight. The drive unit weighs just 3.2 kg.
- ▶ Outstanding support: The intelligent multi-sensor concept ensures optimum power characteristics. The Active Line Plus is also available with a backpedal function.
- ▶ Reduced wear: The gear shift detection feature protects the eBike's components and ensures easy and smooth gear shifts at all times when on the move.
- ▶ Award-winning design: The flowing shapes and pleasing linear design of the Active Line Plus received a Red Dot Design Award.

Technical details on page 82



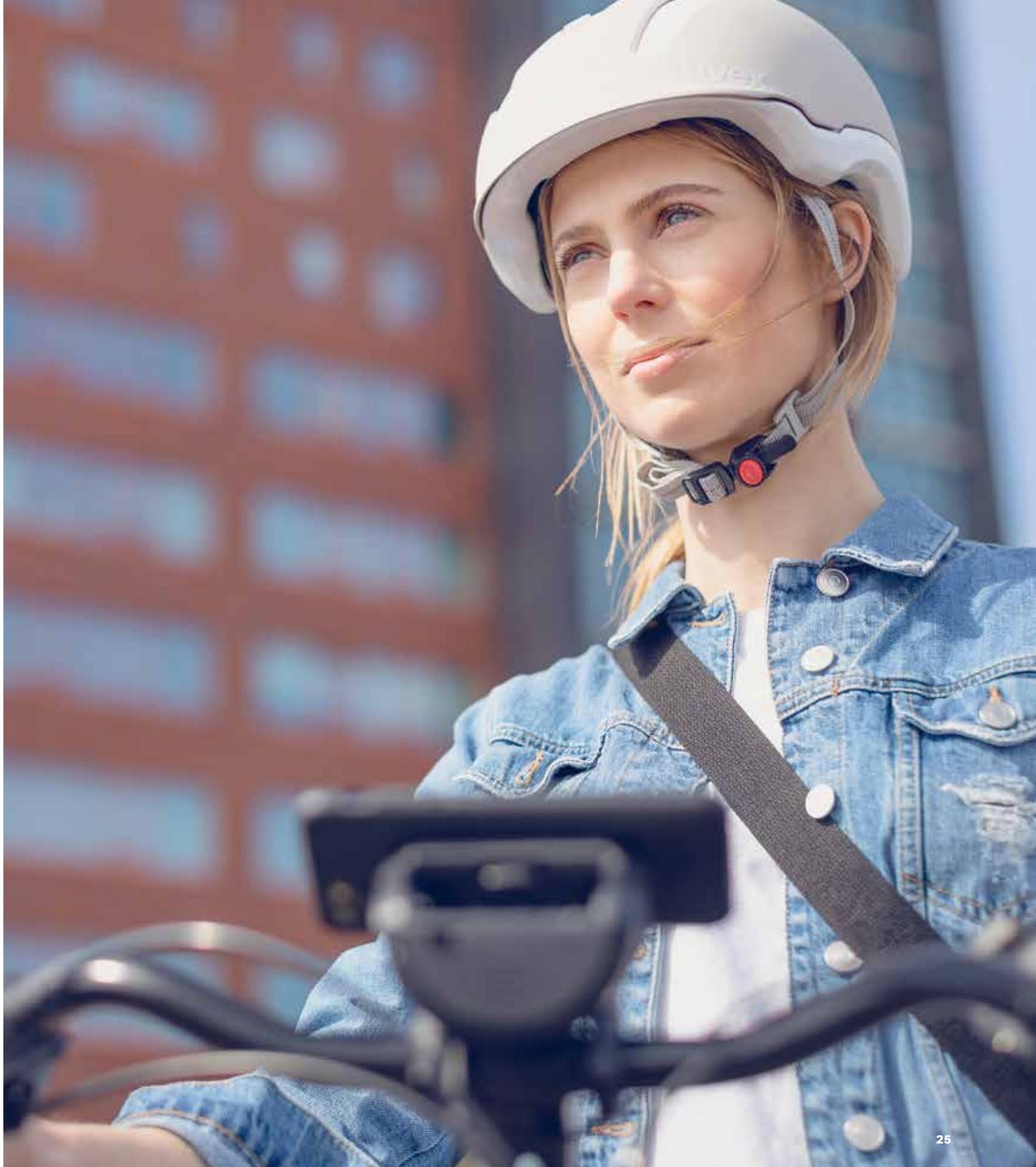
The Active Line Plus is also available with a backpedal function.

Active Line Plus + SmartphoneHub + PowerTube 400

Elegant support



Discover new places, even beyond the city boundaries: The lightweight and compact Active Line Plus delivers an enjoyable riding sensation in all situations and supports a torque of up to 50 Nm. The SmartphoneHub keeps the eBiker fully connected 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 eBike can also be controlled without a smartphone being connected, as a small display in the SmartphoneHub can show the most important riding data. The new PowerTube 400 can be integrated in the bicycle frame to create a clean look for the eBike. The smart and stylish way for explorers to get around.



NEW

Cargo Line



TRANSPORT MADE EASY

FEEL THE FLOW

Making a lot of things much easier. The new Cargo Line which is designed specially for cargo bikes, makes it easy and convenient to make deliveries to customers, get the kids to kindergarten or do the shopping. Whether laden or unladen, the Cargo Drive Unit responds precisely in every situation, always providing the required support at the right moment. With support up to 32 km/h, it unleashes its power even at low cadences, making it easy to reach respectable speeds even when carrying heavy loads. Simply in the flow with the Cargo Line.

#FeelTheFlow #streetflow





NEW

Cargo Line

At a glance



The effortless way to transport loads

Specially for cargo eBikes: The new, powerful Drive Unit Cargo for up to 32 km/h is the ideal drive for load transportation. They have a maximum torque of 75 Nm and up to 400% support. The rider receives the required support always at the right moment. The efficient motors maximise the range – so that the destination is reached, even when fully loaded.

- ▶ 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.

Cargo Line Highlights



Maximum torque

The easy way to transport heavy loads.



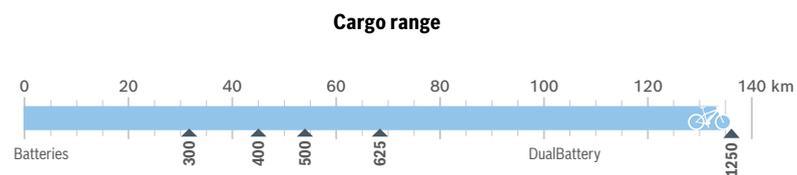
Maximum support

Powerful even under heavy loads.



Drive Unit

Support up to 32 km/h.



The facts

- ▶ Riding performance: 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 load.
- ▶ Powerful: With a torque of up to 75 Nm, the Cargo Line offers full support even at a low cadence. Controlled acceleration is possible, even when carrying a heavy load.
- ▶ Flexible: Whether laden or unladen, the new Cargo Line offers up to 400% of powerful support for cargo bikes with a permissible total weight of up to 250 kg.
- ▶ Economical: The powerful motor works very efficiently, with or without cargo. This allows for long ranges and is also ideal in combination with DualBattery.
- ▶ Smart control: The multi-sensor concept, in combination with innovative control and fast information processing, ensure perfect interaction between riders and their eBikes.
- ▶ Packed with power: 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.

Technical details on page 82

NEW

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 new Cargo Line is specially designed for cargo bikes and makes goods easy and comfortable to transport. 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 75 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.



Performance Line 

FOR LIMITLESS FREEDOM

FEEL THE FLOW

Even more riding enjoyment. The new Performance Line is ready for any adventure – from a relaxing excursion to the countryside, sporty touring or the daily commute to work. The versatile drive system from Bosch delivers exactly the right level of support. It is available in two variants: The Drive Unit Performance Cruise for up to 25 km/h (Cruise) and 32km/h (Sport) with a natural riding sensation or the Drive Unit Performance Speed up to 45 km/h for long distances at higher speeds. One of the quietest drives in its class, it offers powerful, dynamic acceleration and controlled handling for natural riding enjoyment on any surface. This means double the fun.

#FeelTheFlow





Performance Line

At a glance

Sporty riding

The new Drive Unit Performance Cruise delivers the right support at the right moment, even on extended tours in the mountains. The riding sensation always remains natural; in 'off' mode and over 25 km/h (Cruise) and 32km/h (Sport) with barely perceptible pedal resistance. The new Drive Unit Performance Speed was developed to provide dynamic support in everyday life or in leisure use. 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 in the mountains.
- ▶ A powerful, dynamic Drive Unit for commuters, for example.

The facts

- ▶ Sporty riding sensation: The efficient and versatile drive provides dynamic acceleration and guarantees a unique 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 rider and eBike.



For a natural riding sensation and maximum performance in eMTB mode.



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

Technical details on page 82



The facts about Performance Line

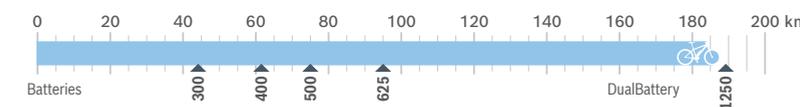
- ▶ Unrivalled resilience: The most stringent demands in terms of trekking or eMTB use are met.
- ▶ Quiet enjoyment: The innovative noise-optimised gearbox makes the Performance Line (.....with Sport variants) one of the quietest drives in its class.
- ▶ For off-road adventures: Used mainly on eMountain bikes, eMTB mode offers controlled, comfortable acceleration.



Performance Line Highlights

Maximum torque	Maximum support	Drive Unit	Backpedal function
It facilitates sporty acceleration even in high cadences.	Dynamic, ideal for extended sporty rides.	For all requirements and speeds up to 25 km/h (Cruise) and 32km/h (Sport).	The Performance Cruise is also available with a backpedal function.

Performance Cruise Range



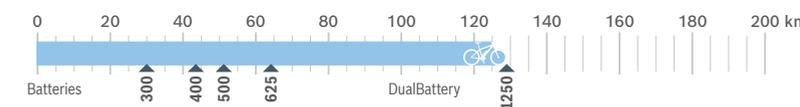
Average of combined use of all four modes and favourable conditions. Further details in relation to conditions can be found online.



Performance Speed Highlights

Maximum torque	Maximum support	Drive Unit
A torque of up to 75 Nm ensures a sporty riding sensation.	The powerful motor is perfect for long distances.	Supports up to 45 km/h.

Performance Speed Range



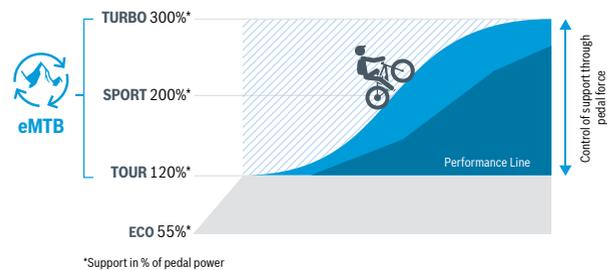
Average of combined use of all four modes and favourable conditions. Further details in relation to conditions can be found online.

Performance Line + Kiox + PowerTube 500

Sporty riding



The route to the mountains by hardtail: The new Performance Line is particularly sporty and now includes eMTB mode, which can adapt dynamically to the individual's riding style. The riding sensation always remains natural; in 'off' mode and over 25 km/h (Cruise) or 32 km/h Sport pedal resistance is barely perceptible. The little Kiox on-board computer is your link to the connected eBike world of Bosch. All relevant riding data is recorded by Kiox and transmitted via Bluetooth to the eBike Connect app. The PowerTube 500 allows eMountain bikers to embark on long rides, while the integrated rechargeable 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.



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



Performance Line + Kiox + Lock + PowerTube 500

Outdoors in your element



For adventures on paved roads and unpaved trails: The new 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 barely perceptible pedal resistance over 25 km/h (Cruise) or 32 km/h (Sport) or when switched off. 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 function Lock 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.



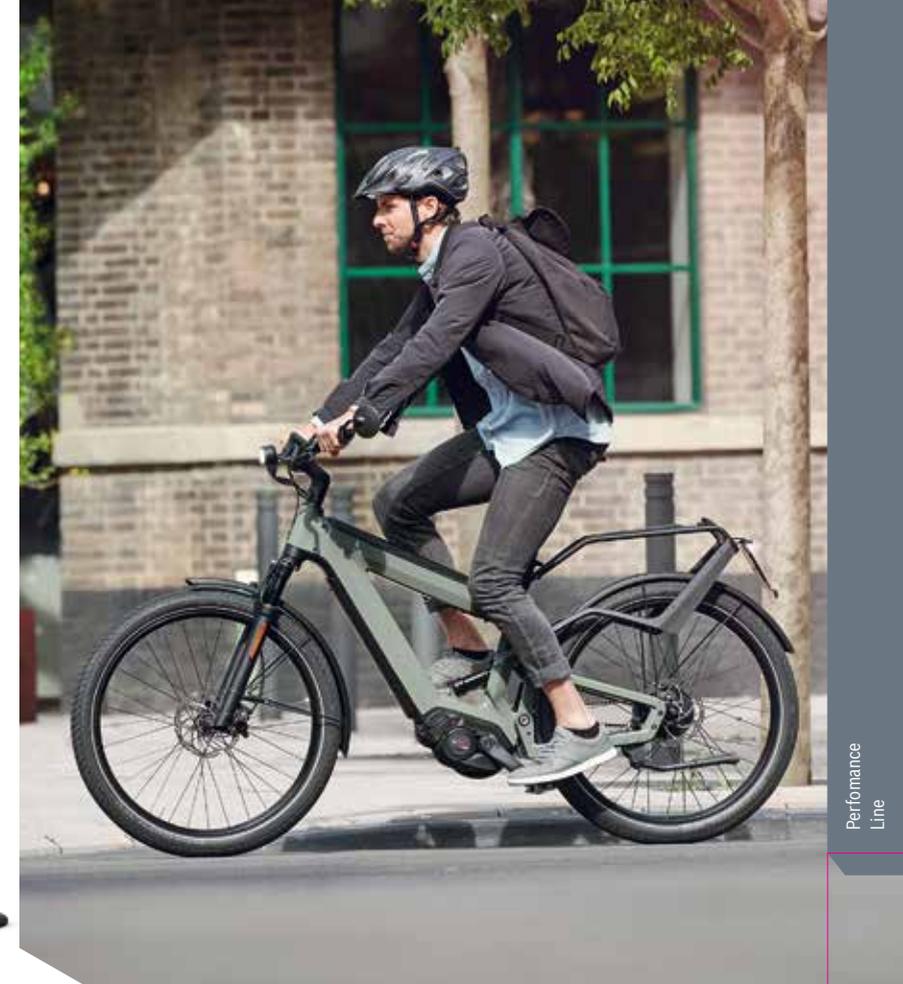


Performance Line Speed + Intuvia + DualBattery 1250

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 new Drive Unit Performance Speed speeds up daily routines and supports S-pedelecs with a maximum torque of 75 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. Weighing only 2.9 kg, this new compact and lightweight Drive Unit improves the agility and handling of the eBike. 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 PowerTubes 625 provides twice as much capacity. This is a combination that can make your journey to work an enjoyable experience.



Performance Line CX  |  | 

FOR THE PERFECT UPHILL FLOW

FEEL THE FLOW

Made for people who love the trail. The new, light-weight and compact Performance Line CX is the most powerful drive for demanding riders with support of up to 340% and dynamic responsiveness. Thanks to the innovative gear concept, the drive provides a particularly natural riding sensation. In combination with the new PowerTube 625, which can be integrated in the frame, long and mountainous tours can be carried out – bringing maximum ranges and altitudes within reach. The new Performance Line CX makes every uphill ride a pleasure as the ideal warm-up for the subsequent downhill. We call that: double the fun.

#FeeltheFlow #uphillflow





Performance Line CX

At a glance



Performance Line CX Highlights



Maximum torque
Powerful acceleration despite compact size.

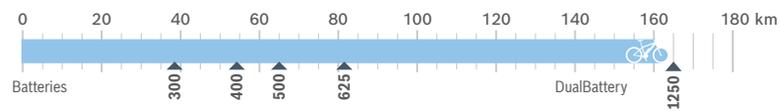


Maximum support
For powerful propulsion, an extremely sporty riding style and fast sprints.



Drive Unit
Sustained support up to 25 km/h (Cruise) or 32 km/h (Sport), even on long mountain rides.

Range



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

The superlative among Drive Units

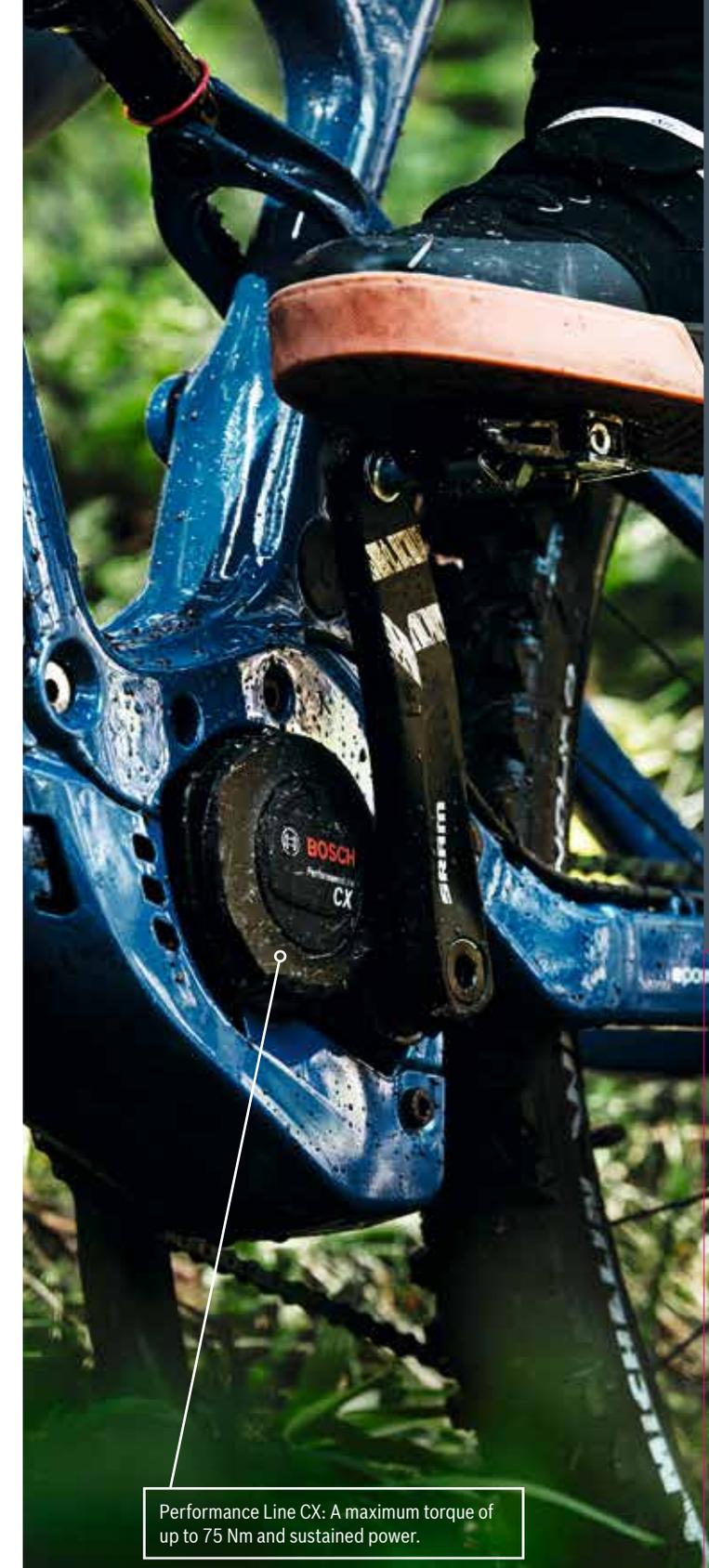
The new Performance Line CX is the powerhouse among the drives. For even more riding enjoyment on the trail: with a maximum torque of 75 Nm and weighing 2.9 kg, it is particularly compact in size. The eMountain bike motor with the innovative new gearbox conquers every trail – offering support up to 340% for steep ascents and delivering full power from a standing start. The motor and gearbox decouple at speeds of over 25 km/h (Cruise) or 32 km/h (Sport), ensuring a natural riding sensation. Specially developed for sporty riding, eMTB mode takes the pleasure of the trail to a whole new level, with complete focus on sporting agility.

- ▶ The strongest drive for the Uphill Flow.
- ▶ Greater riding enjoyment in challenging terrain and when riding uphill.

The facts

- ▶ Sporty riding enjoyment: The multi-sensor concept enables a dynamic and responsive Drive Unit response for precise acceleration and a unique trail experience.
- ▶ Always full performance: The motor ensures powerful riding behaviour right from the start. The drive delivers constant power over a very wide cadence range – ideal for fast intermediate sprints and crisp changes of tempo.
- ▶ Innovative gearbox concept: A freewheel completely decouples engine and transmission, so that the eBiker pedals efficiently, even if the system does not provide support at that moment.
- ▶ Compact construction: Weighing just 2.9 kg and with a size reduced by almost 50%, the new drive sets new standards. This allows different frame geometries with shorter chain stays and optimal integration, making eMountain bikes much more nimble and agile.
- ▶ Complete control: In eMTB mode, the progressive motor support automatically adapts to the individual riding style. This prepares the bike for whatever difficulties the terrain may have to throw at it, without even having to change gear. The eMountain biker benefits from significantly better traction.
- ▶ Robust and reliable: The drive will meet the highest eMountain bike requirements and will withstand even extreme loads. Even on long mountain rides, the motor offers impressive performance.
- ▶ Perfect support: With eMTB mode, powerful walk assistance and support for short cranks, Bosch offers eMountain bikers the optimum combination for challenging uphill sections and demanding mountain trails.

Technical details on page 82



Performance Line CX: A maximum torque of up to 75 Nm and sustained power.



Performance Line CX + Kiox + PowerPack 500 + eSuspension

Combination for eMTB
professionals



Ready for any challenge: The new 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 controlled 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.

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

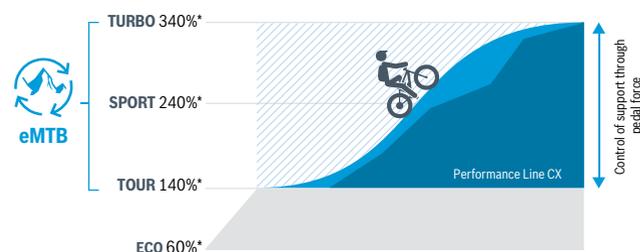


eMTB mode

For the ultimate Uphill Flow

For powerful eBiking in the mountains and on rough terrain: The eMTB mode of the new Performance Line CX and Performance Line switches between the Tour and Turbo modes. To control the bike even on difficult sections, the further optimised eMTB mode supports eMountain bikers with maximum sensitivity, allied with progressive power delivery: With a maximum torque of up to 75 Nm and motor support between 140% and 340%. Depending on the pedal pressure applied, the motor dynamically boosts the rider's own performance. The eBiker does not have to change the riding modes manually. Starting on steep slopes is no problem, while riding on mountain trails is noticeably easier and the eMountain biker benefits from significantly better traction. This provides for a natural riding sensation and maximum performance on the trail.

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



*Support in % of pedal power

"Experiencing technical innovations is quite wonderful! The new, 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



Short cranks

Whether you have long or short cranks, Bosch provides the right support in both cases. Short cranks give eMountain bikers extra ground clearance. A specialist dealer will be able to make the corresponding adjustment.

Powerful walk assistance

Whether you encounter a carpet of roots or mountain slopes: The optimised walk assistance provides even and powerful support in the face of almost any obstacle without any delays. The speed and start-up behaviour of the walk assistance automatically adjust, depending on the gradient.

NEW eSuspension

E-Live Valve is the first time FOX offers eMountain bikers a chassis that can be electronically controlled using the Kiox on-board computer with Bosch eBike Systems and that is designed for maximum comfort and fun in challenging terrain. Powered by energy from the Bosch batteries, the FOX-E-Live-Valve system uses a sophisticated system of sensors to determine the conditions of the terrain 1,000 times per second and adjusts the spring fork and damper accordingly within fractions of a second. This means that the eMountain biker can always be sure of the ideal suspension setting and can concentrate fully on the trail with 100% fun.

 VISIT THE WEBSITE
bosch-ebike.com/uphillflow

Displays

FULL SUPPORT ON THE HANDLEBAR

FEEL THE FLOW

Support in all situations: The various Bosch eBike displays will support you – whatever your plans. Purion offers the rider a swift overview that focuses on the essential information. Intuvia is the intuitive way to control the eBike. The sporty, robust and connected Kiox on-board computer has all the classic functions of an on-board computer, while at the same time giving the rider access to the digital world via the smartphone app. Together with the smartphone and the COBI.Bike app, the new SmartphoneHub transforms the pedelec into a fully connected eBike. This provides riders with a suitable and reliable companion on every tour.



Displays

At a glance

In order to be able to compare the various displays and to allow the best possible individual choice to be made, it is helpful to differentiate between connected and non-connected displays. Purion and Intuvia are the right choice for riders who want an easy-to-use display: they offer a quick and clear overview of the essential riding data. Anyone who likes to plan their routes and track and analyse riding

data by digital means should choose a connected Bosch display solution – for the perfect Connected Biking experience. Compact, robust and integrated with the Bosch eBike Connect world, Kiox offers all the functions that an ambitious sporty rider could need. Together with the smartphone and the COBI.Bike app, the SmartphoneHub transforms the pedelec, making it an integral part of digital life.



Purion

Focussing on the essentials: Purion allows you to call up all key information at a click of the thumb.



Intuvia

Easy to use: Intuvia is the intuitive way to control the eBike.



Connected biking with



Kiox

This offers all the classic functions a sporty rider could need, while at the same time giving eBikers access to the digital world via the smartphone app.

NEW



SmartphoneHub

The integrated display shows the most important riding data, even without a smartphone attached.

Connected biking with



The combination of SmartphoneHub, COBI.Bike app and smartphone creates a completely connected riding experience.

Riding modes

At a glance

Bosch eBike displays offer the right riding mode for every situation. There are five support levels. When pushing your bike, a walk assistance feature activated in two stages provides assistance up to 6 km/h.



Eco

Effective support with maximum efficiency for the greatest range.



Tour

Uniform support for rides with long ranges.



Sport

Powerful support for universal usage for both sporty riding and fast commuting in urban traffic.



eMTB*

Progressive support for a natural riding sensation and optimal control on demanding terrain.



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 Sport mode in the Performance Line and the Performance Line CX.



Purion

Compact purist



Riding modes see page 50

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.
- ▶ Outstanding readability: The backlit, non-glare display allows you to read all riding data clearly, even in direct sunlight.
- ▶ The optional service interval display always 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



Riding modes see page 50

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 right 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.

Compatible with e Shift





Connected biking with



Compatible with eShift

Kiox

Sporty connectivity



Riding modes see page 50

Kiox is the on-board computer for ambitious sporty riders – compact, robust, connected. It has all the classic functions of an on-board computer, while at the same time giving the eBiker access to the digital world via the smartphone app. The colour display gives eBikers all riding data at a glance, while the separate control unit on the handlebar allows them to keep everything under control. All relevant riding

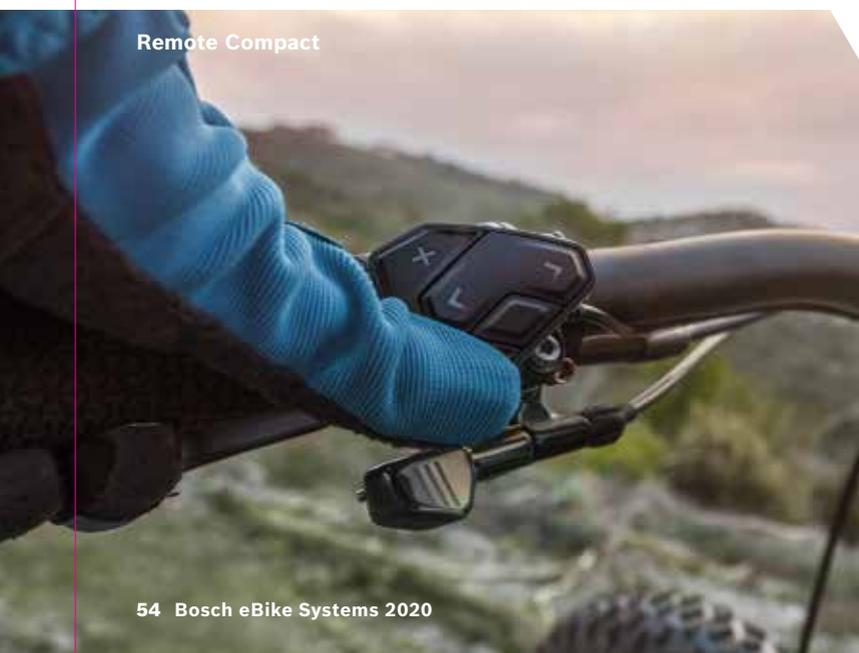
data is recorded by Kiox and transmitted via Bluetooth to the eBike Connect app. Kiox combines the GPS data with the riding data, which can be called up in the app or on the online portal. To ensure that all data is always up to date, the information between Kiox and the app is automatically synchronised and updated. Thus Kiox provides the perfect link to the world of Bosch connected biking.

The facts

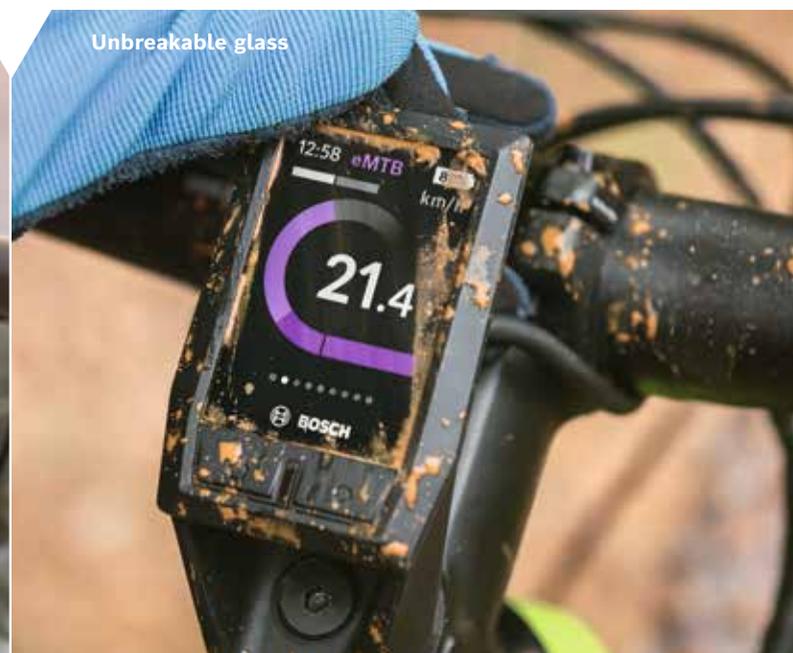
- ▶ Training: Kiox can be connected via BLE (Bluetooth Low Energy) to a heart rate monitor to enable you to check your heart rate and optimise your workout.
- ▶ Motivation: A display shows you whether you're riding at above or below your personal average speed. This will motivate you to push yourself even harder.
- ▶ Operability: Saddle up, switch on, ride off and have fun. The on-board computer can be used immediately and provides the eBiker with all the essential information and data.
- ▶ Compact but big by design: Kiox scores points for its stylish appearance. The screen features strong colours and a clearly laid out user interface. The practical magnetic mount likewise lends the handlebar a neat and tidy look.
- ▶ Remote Compact: The buttons enable the on-board computer to be operated safely and comfortably using your thumb. The distinct, tactile pressure behind the buttons during operation gives the rider clear feedback.
- ▶ Unbreakable glass: Whether dealing with dirt or stone chippings, the scratchproof glass display is a great partner, both on the trail or in the city.
- ▶ Magnetic mount: Quickly stowed and safely mounted to withstand jolts on rough terrain. The magnetic mount allows for easy removal and attachment of the on-board computer, as well as a firm hold.
- ▶ Kiox and eShift: Kiox also works with eShift, the integrated electronic gear shifting solution that we offer in cooperation with the gear manufacturers enviolo, Rohloff and Shimano – for greater comfort, barely perceptible gear shifts, less wear and tear and more riding enjoyment.

Technical details on page 51

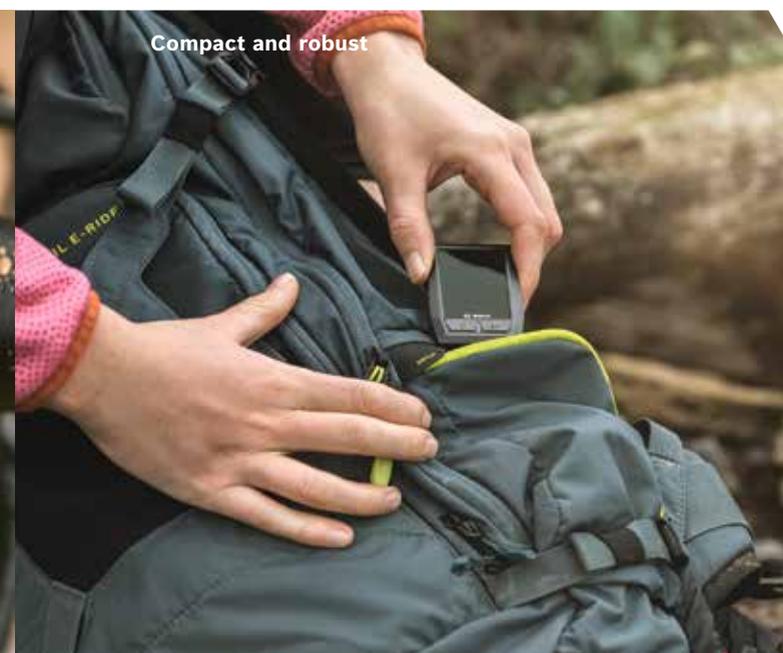
Remote Compact



Unbreakable glass



Compact and robust



Magnetic mount



NEW Connected biking with Kiox

The sporty display connects the eBiker to the connected eBike world of Bosch. The eBike Connect app allows riders to connect Kiox via Bluetooth Low Energy with the smartphone, for example, in order to evaluate their own activities – for a very personal and interactive Connected Biking experience. eBikers will have all relevant information in view on a tablet or PC in the ebike-connect.com online portal.

NEW Secure connection: Kiox and Lock

The new premium function Lock makes Kiox the key to greater safety. When the on-board computer is disconnected, Lock deactivates motor support and only releases it again when the same on-board computer is reconnected. A clever way to supplement a mechanical lock – for relaxed daily use of the eBike.





NEW

SmartphoneHub

Intelligence on your handlebar



▶ Riding modes see page 51

The new SmartphoneHub transforms the pedelec into a fully networked eBike and part of digital life: it offers live weather forecasts that allow riders to stay dry when touring the countryside, fitness tracking on the training track and music streaming for the perfect soundtrack. The smartphone and COBI.Bike app turn the SmartphoneHub into an intelligent control centre

that can be used for navigation, recording activities and connection to other services – a major step in the direction of connected biking. The eBike can also be started and ridden without a smartphone. The integrated display in the SmartphoneHub shows the most important riding data. That way eBikers remain flexible at all times – no matter where the route takes them.

The facts

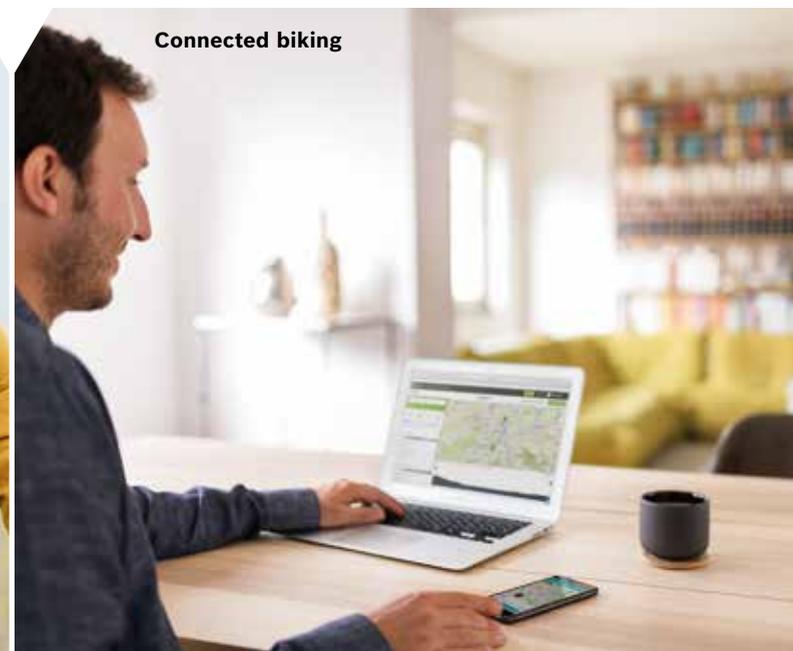
- ▶ **Connected biking:** The SmartphoneHub and the COBI.Bike app connect the eBike to the digital world – from navigation, music streaming, fitness tracking or making calls to the integration of other services and apps such as Strava or komoot.
- ▶ **Intelligent solution:** The combination of SmartphoneHub, COBI.Bike app and smartphone 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 pedelec can also be controlled without a smartphone using the 1.52-inch LC display integrated in the SmartphoneHub. The display shows the most important riding data.
- ▶ **Navigation:** The COBI.Bike app can act as an expert guide – either with 2D or 3D map view or even in conjunction with the komoot online service. As an option, the navigation instructions are also issued by voice output.
- ▶ **Live weather:** The carefree way to cruise through the countryside – up-to-the-minute weather forecasts and precise weather data ensure that eBikers are always well-informed thanks to the COBI.Bike app.
- ▶ **Training partner:** The COBI.Bike app turns the smartphone into a personal trainer by connecting to fitness and health services like Apple Health, Google Fit and Strava.

☰ Technical details on page 51

Connected with Strava



Connected biking



Intelligent solution



Training partner



- ▶ **Fitness data:** The COBI.Bike app gives eBikers a permanent overview of the most important training data such as performance, cadence and calorie consumption. This information can also be played back at the press of a button. It is also possible to connect a heart rate monitor.
- ▶ **Entertainment:** The easy way to listen to your favourite music or the latest thriller. The COBI.Bike app allows eBikers to access music and audio book streaming services, such as Spotify or Audible, which can be conveniently operated by remote control.
- ▶ **Remote:** The separate control unit enables eBikers to control all functions easily, safely and comfortably from the handlebar.

- ▶ **Charging function:** The smartphone can be connected to the SmartphoneHub and conveniently powered from the eBike battery.
- ▶ **Operability:** The eBike can be operated intuitively with the smartphone and is designed for easy handling thanks to the control unit and voice output.
- ▶ **Readability:** Information is always visible, whether on the smartphone display or on the display integrated in the SmartphoneHub.
- ▶ **Wireless update:** Software updates for the SmartphoneHub can be installed with ease using wireless technology with the help of the COBI.Bike app.



Social media connections



Smartwatch connection



PACKED WITH POWER

FEEL THE FLOW

Whether you're taking a jaunt through the countryside or a ride through the city – using the PowerPack or PowerTube means there's no limit to riding enjoyment. There is a suitable rechargeable battery for every requirement and every type of eBike, from the rack variant and frame battery to the integrated solution. Thanks to their enormous mileage, long service life, intelligent Battery Management System and easy handling, Bosch lithium-ion batteries are among the most modern on the market. DualBattery is the perfect solution for tourers, long-distance commuters, cargo bikers or eMountain bikers. The combination of two Bosch PowerTubes 625 delivers up to 1,250 watt hours. More power for even more riding enjoyment.



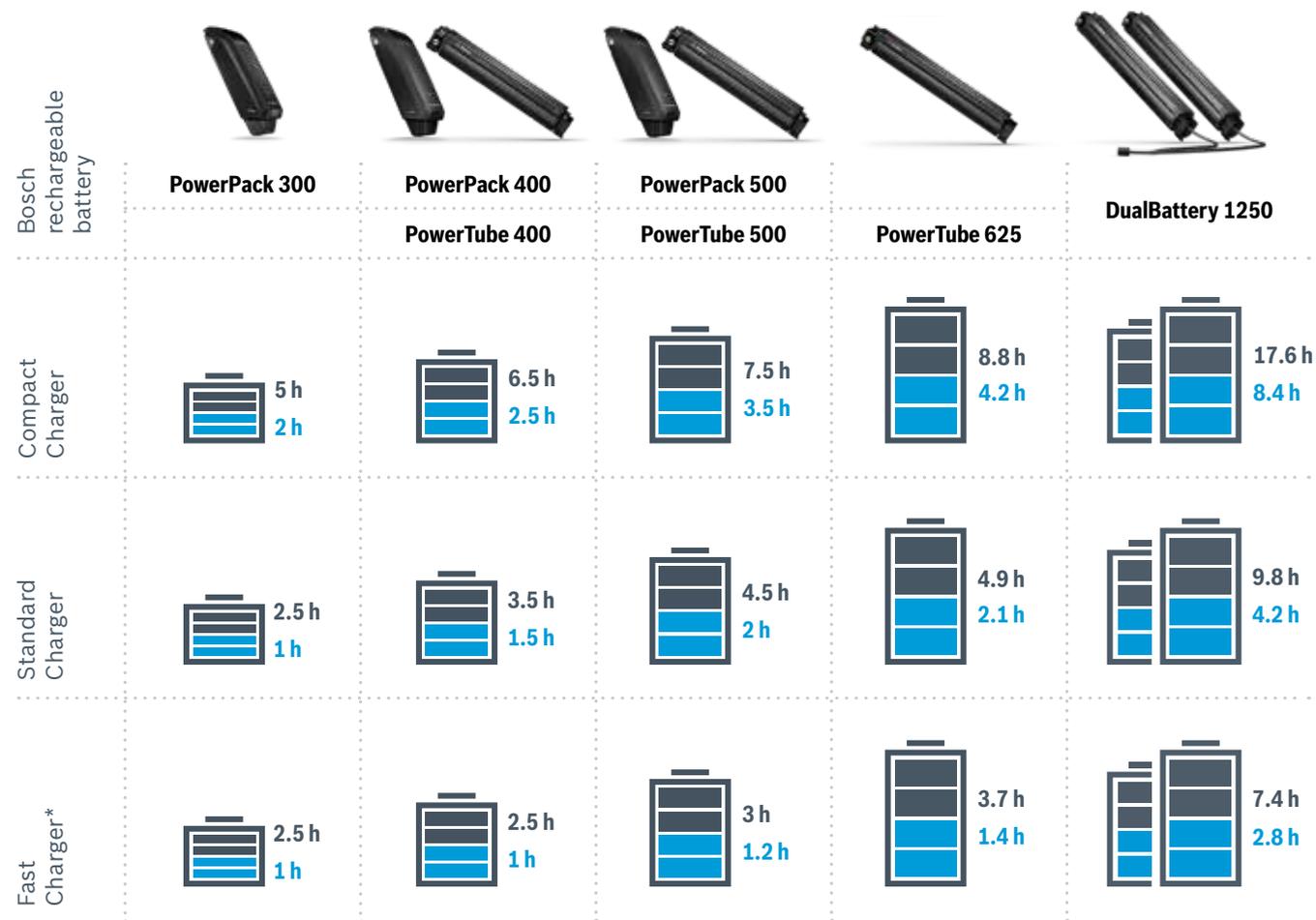
Charging times

Charging times at a glance



There is a suitable Bosch battery for every eBike type: the PowerPack as a rack variant or frame battery, the

PowerTube as an integrated solution and the DualBattery with two Bosch batteries for twice the power.



■ 50% charge ■ 100% charge

PowerPacks

Versatile power sources

Bosch PowerPacks come in a variety of types: The PowerPack 300 is the ideal companion on short, high-speed tours. 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
Voltage	36 V	36 V	36 V
Capacity	8.2 Ah	11.0 Ah	13.4 Ah
Energy content	approx. 300 Wh	approx. 400 Wh	approx. 500 Wh
Weight			
Frame battery	approx. 2.5 kg	approx. 2.5 kg	approx. 2.6 kg
Rack battery	approx. 2.6 kg	approx. 2.6 kg	approx. 2.7 kg
Size			
Frame battery	325 x 92 x 90 mm	325 x 92 x 90 mm	325 x 92 x 90 mm
Rack battery	372 x 122 x 80 mm	372 x 122 x 80 mm	372 x 122 x 80 mm
Charging time*			
50% charge	approx. 1 h	approx. 1 h	approx. 1.2 h
Full charge	approx. 2.5 h	approx. 2.5 h	approx. 3 h

*Charging times with the Fast Charger.





PowerTubes

Powerful performers

For the highest demands in terms of performance and aesthetics: Bosch PowerTubes have the power to drive any ride and, thanks to their compact size and minimalist design, can be integrated with the eBike to ideal effect. There are two options for installing the battery: horizontally or vertically. In addition to the PowerTube 500, the PowerTube is now available in two other variants: as a PowerTube 400 and PowerTube 625. The new PowerTube 400 is the right battery for stylish city bikes, while the PowerTube 500

ensures trekking and eMountain bikes are perfectly equipped for longer distances. The new 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.



	NEW PowerTube 400	PowerTube 500	NEW PowerTube 625
Voltage	36 V	36 V	36 V
Capacity	11.0 Ah	13.4 Ah	16.7 Ah
Energy content	approx. 400 Wh	approx. 500 Wh	approx. 625 Wh
Weight	approx. 2.9 kg	approx. 2.9 kg	approx. 3.5 kg
Size			
horizontal	349 mm x 84 mm x 65 mm	349 mm x 84 mm x 65 mm	416 mm x 84 mm x 65 mm
vertical	349 mm x 65 mm x 84 mm	349 mm x 65 mm x 84 mm	416 mm x 65 mm x 84 mm
Charging time*			
50% charge	approx. 1 h	approx. 1.2 h	approx. 1.4 h
Full charge	approx. 2.5 h	approx. 3 h	approx. 3.7 h

*Charging times with the Fast Charger.

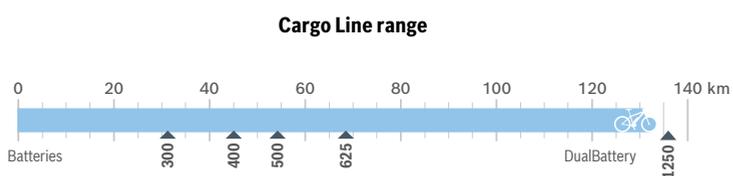


DualBattery

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.



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



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 charges both batteries.
- ▶ The following combinations are possible:
Two PowerTubes, two PowerPacks or a PowerTube and PowerPack.*
- ▶ The Battery Management System also offers maximum protection for the DualBattery system against overcharging, undervoltage, overheating and short circuits, as well as extending the service life of the batteries.

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

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 handbag. 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 are constantly on the move. It weighs less than 600 grams and is 40% smaller than the Standard Charger – small enough to fit into any pannier. The Compact Charger can be used with supply voltages of 110 to 230 volts and can also be used in the US, Canada as well as Australia.



Standard Charger

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



Fast Chargers

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

eShift

Integrated gear shifting, relaxed riding



The integrated, electronic eShift gear shifting solution ensures riding comfort, safety, a longer range and reduced wear. With its partners, Rohloff and Shimano, Bosch eBike Systems has developed two electronic gear shifting solutions that provide a host

of benefits whether you're on the road or trail: Rohloff E-14 Speedhub 500/14 and eShift with Shimano Nexus Di2 or Shimano Alfine Di2. eShift always offers the best possible solution for various applications and Bosch product lines.

- ▶ The selected cadence or current gear setting are shown on the Bosch display.
- ▶ Brief throttling of the motor during the gear shifting operation allows smooth, synchronised gear changes.
- ▶ Fast, precise gear shifting and the auto-downshift function automatically shifts to the gear previously defined by the rider when the bike comes to a stop. This makes it easier for the rider to move off again and enhances safety.
- ▶ All eShift solutions are available in combination with a hub gear system.



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.

SHIMANO Di2

Di2 is Shimano's platform for electronic gear shifting. The automatic hub gear system models (Shimano Nexus Di2 and Shimano Alfine Di2) are well suited for use in the city or on trekking tours and can be operated manually.

- ▶ Quick, precise gear changes for a sporty riding sensation.
- ▶ A multi-shift function allows you to change 3 gears at once for fast acceleration.
- ▶ 14 gears and 526% gear spread.
- ▶ Quick, precise gear changes for a sporty riding sensation.
- ▶ Shift recommendation ensures the best gear ratio.
- ▶ Start-up is easier, whether you choose automatic or manual switching.

WATCH THE VIDEO AT
bosch-ebike.com/eshift

Compatible with



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



Intuvia

Kiox

eShift explained

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

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 / sporty



Single shift



Defined gears



Cruise/Sport/Speed*



Manual / automatic gear shifting



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: Sporty



Single / Multishift



Defined gears



Cruise/Sport/Speed



Manual gear shifting

*Does not apply to Cargo Line.

RE-INVENTING SAFETY

The new premium function Lock makes Kiox the key to greater security as a clever complement to a mechanical lock. Thus, technology is used in service of a safe and secure riding sensation.



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



NEW

Lock

Intelligent additional theft protection

Park your eBike and enjoy a bit of carefree downtime – the new premium function Lock makes the Kiox on-board computer the key to greater security. Lock enables motor support to be deactivated by removing the Kiox 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 premium function Lock can initially be set up with the Kiox on-board computer on the eBike.
- ▶ 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.
- ▶ Using the on-board computer as a key: Lock is simply activated and deactivated by connecting and disconnecting the Kiox on-board computer.
- ▶ The right on-board computer: Lock is available for the first time with the Kiox connected on-board computer. The eBike can only be unlocked with the on-board computer with which the Lock feature was set up via the app.
- ▶ 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.
- ▶ Making reselling harder for thieves: If Lock is activated, it is no longer possible to ride with motor support.



Safety comes first!

Minimising risks while maximising riding enjoyment

Bosch eBike Systems provides innovative and inspiring mobility solutions. For people who want to get around relaxed, sustainably and above all, safely. For more riding enjoyment.

Risk:

The dangers of manipulation

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



Solution:

The **software** of the Bosch eBike systems closes the door on tuning. 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 – in front of a restaurant for example, or in front of the office.



Solution:

The new premium function **Lock** is the ideal complement to a mechanical lock. **Lock** makes the Kiox 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

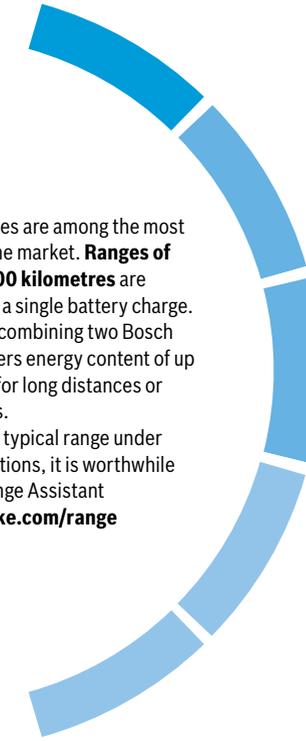
Some people interested in eBikes are sceptical that the energy provided by the eBike battery is actually sufficient for their purposes.

Information on the best way to use and care for the rechargeable battery can be found in the Bosch Battery Guide.



Solution:

Bosch batteries are among the most efficient on the market. **Ranges of more than 100 kilometres** are possible with a single battery charge. DualBattery, combining two Bosch batteries, offers energy content of up to 1,250 Wh for long distances or steep ascents. To calculate a typical range under various conditions, it is worthwhile trying our Range Assistant at [bosch-ebike.com/range](https://www.bosch-ebike.com/range)



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](https://www.bosch-ebike.com/riding)

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.



Service and Technology

SERVICE MEANS WORRY-FREE CYCLING

Service is more than a promise. It's an attitude. Because Bosch eBike Systems believes that every product is only as good as its service. That's why specialist dealers and workshop staff receive intensive training to turn them into eBike specialists and 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.



Service



Products to retrofit

Bosch eBike Systems offers a comprehensive and reliable after-sales service. Many of our products can be retrofitted – so that the eBike system is always equipped with the components required.

- ▶ On-board computer: Some of our on-board computers are available as retrofit kits.
- ▶ Batteries: How about an additional battery for even longer riding enjoyment? Our batteries can be purchased directly from specialist dealers.
- ▶ Chargers: Bosch batteries can be reliably recharged using our chargers. Compact, Standard and Fast Chargers are available from dealers.

DiagnosticTool

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

Want to find a Bosch dealer nearby?

bosch-ebike.com/nz/service/dealer-search/



Questions and Answers

▶ Does Bosch produce its own eBikes?

Bosch does not manufacture its own eBikes. As a provider of eBike systems, Bosch works together with renowned bicycle manufacturers that develop pedelecs. More than 70 well-known bicycle brands globally and over 20 brands in New Zealand already use eBike systems with the "epowered by Bosch" quality seal.

▶ Which bike brands offer the Bosch eBike system?

You can find an overview of all brands in New Zealand that develop eBikes 'epowered by Bosch' here: bosch-ebike.com/nz/service/brands

▶ Is a dealer directory available?

The Bosch eBike dealer search provides details of all bicycle retailers who sell eBikes – 'epowered by Bosch'. We particularly recommend Bosch certificated dealers because they provide special professional advice. There is an overview of all retailers who sell eBikes 'epowered by Bosch' here: bosch-ebike.com/nz/service/dealer-search/

▶ Which system variants does Bosch offer?

Bosch eBike Systems currently offers five product lines: The elegant Active Line, the smooth Active Line Plus, the new Cargo Line for cargo bikes, the new sporty Performance Line and the powerful new Performance Line CX designed specially for eMountain bikes.

▶ Is tuning allowed?

No, tuned eBikes are prohibited from use on public roads. If a so-called tuning kit is used nonetheless or the Bosch eBike system is manipulated in some other way, this risks invalidating warranty entitlements for the purchased bike. As a general rule, using the system improperly will also reduce the service life and risk causing damage to the drive unit and the bike itself. Riders may also endanger their own safety and the safety of other road users and risk accidents as a result of tuning as well as high personal liability costs and even criminal prosecution. Bosch eBike Systems therefore asks that all riders and providers refrain from tuning eBikes.

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

For technical reasons, the Bosch eBike system is not available as a retrofit kit. A special frame is required to integrate the drive system in the bike. Bicycle manufacturers produce the frame specially for eBikes epowered by Bosch. Bosch works together with more than 20 renowned eBike brands in New Zealand on this. You can find an overview here: bosch-ebike.com/nz/service/brands

▶ 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 special tools, such as a software diagnosis tool, to identify the exact problem. Even ambitious bicycle repair enthusiasts may not be able to repair the defect and there is a significant risk that unprofessional repairs will compromise the safety of the overall system.

▶ Battery repairs, cell replacement and "refreshing" the battery?

Some companies and internet-based service providers offer a battery repair, cell replacement or even a so-called battery 'refreshing' service: Is this solution suitable for repairing defective batteries?

Bosch eBike batteries must never be opened – not even if they are being repaired by third parties. Opening the battery always means interfering with the condition approved by Bosch and entails safety-related risks. Further important information about safety risks and risks from battery repairs can be found in our Battery Guide. A defective battery must always be replaced. Opening or modifying batteries, as well as any other attempted manipulation, risks voiding any guarantee or warranty claim. 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.

▶ Used batteries for the Bosch eBike system are sometimes offered for sale online. Can these 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, e.g. stolen goods are also sold online.

▶ Alternative replacement battery for the Bosch eBike system?

"Low-cost replacement batteries for the Bosch system are sold online, but they are not manufactured by Bosch. Can these be used?"

Bosch eBike Systems would strongly advise against using non-original Bosch replacement parts. The software and hardware used in Bosch eBike systems are perfectly adapted to one another in order to guarantee efficiency and safety.

▶ Alternative charger for the Bosch eBike system?

"Low-cost chargers for eBikes with the Bosch system are sold online. Can these be used?"

Original chargers are adapted specifically to the Bosch eBike System and have the correct software for charging and managing the Bosch battery to optimum effect. Using a different charger may reduce the service life of the batteries or cause other damage or malfunctions in the eBike system.

▶ Purchasing a converted eBike?

"I'd like to purchase a used eBike. The previous owner said that he made a "few improvements to the eBike components". What does Bosch think of this?"

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

Technical Details

Drive Units



	Active Cruise 25km/h Sport 32km/h	Active Plus Cruise 25km/h Sport 32km/h	Cargo 32km/h	Performance Cruise 25km/h Sport 32km/h		Performance Speed 45 km/h	Performance CX Cruise 25km/h Sport 32km/h
Gear type	Derailleur system / hub gear system	Derailleur system / hub gear system	Derailleur system / hub gear system	Derailleur system	Hub gear system**	Derailleur system	Derailleur system / hub gear 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: 300 SPORT: 120-300 TOUR: 120 ECO: 55	TURBO: 300 SPORT: 200 TOUR: 120 ECO: 55	TURBO: 340 SPORT: 240 TOUR: 140 ECO: 60	TURBO: 340 eMTB ¹ : 140-340 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: 75 SPORT: 60 TOUR: 50 ECO: 40	TURBO: 65 eMTB ¹ : 60 TOUR: 45 ECO: 35	TURBO: 65 SPORT: 50 TOUR: 45 ECO: 35	TURBO: 75 SPORT: 60 TOUR: 50 ECO: 40	TURBO: 75 eMTB ¹ : 75 TOUR: 50 ECO: 40
Maximum cadence (rpm) with drive support	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 100	TURBO: 105 SPORT: 105 TOUR: 105 ECO: 105	TURBO: >120 SPORT: >120 TOUR: >120 ECO: >120	TURBO: >120 SPORT: >120 TOUR: >120 ECO: >120	TURBO: >120 SPORT: >120 TOUR: >120 ECO: >120	TURBO: >120 SPORT: >120 TOUR: >120 ECO: >120	TURBO: >120 SPORT: >120 TOUR: >120 ECO: >120
Start-up behaviour	Smooth	Smooth, agile	Powerful	Sporty	Dynamic	Sporty	Very sporty
Max. support up to	25km/h 32km/h	25km/h 32km/h	32 km/h	25km/h 32km/h	25km/h 32km/h	45 km/h	25km/h 32km/h
Backpedal function	optional	optional	no	optional	optional	no	no
Gear shift detection	yes/no	yes/no	yes/no	yes	no	yes	yes (dynamic)
Weight approx.	2.9 kg	3.2 kg	2.9 kg	3.2 kg	3.2 kg	2.9 kg	2.9 kg

* Depending on the eBike type, the eMTB mode replaces the Sport mode in the Performance Line and the Performance Line CX. It can be activated/deactivated by the bicycle manufacturer and the specialist dealer.
** Reduced torque on Shimano hub gear systems.

Technical Details

Batteries



	PowerPack 300	PowerPack 400	PowerPack 500	PowerTube 400	PowerTube 500	PowerTube 625
Mounting type	Frame battery Rack battery	Frame battery Rack battery	Frame battery Rack battery	In the frame: Horizontal/vertical	In the frame: Horizontal/vertical	In the frame: Horizontal/vertical
voltage	36 V	36 V	36 V	36 V	36 V	36 V
Capacity	8.2 Ah	11.0 Ah	13.4 Ah	11.0 Ah	13.4 Ah	16.7 Ah
Energy content approx.	300 Wh	400 Wh	500 Wh	Approx. 400 Wh	Approx. 500 Wh	Approx. 625 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	2.9 kg	2.9 kg	3.5 kg
Dimensions Frame battery ¹ /Rack battery ² Horizontal ³ /vertical ⁴	325 x 92 x 90 mm ¹ 372 x 122 x 80 mm ²	325 x 92 x 90 mm ¹ 372 x 122 x 80 mm ²	325 x 92 x 90 mm ¹ 372 x 122 x 80 mm ²	349 x 84 x 65 mm ³ 349 x 65 x 84 mm ⁴	349 x 84 x 65 mm ³ 349 x 65 x 84 mm ⁴	416 x 84 x 65 mm ³ 416 x 65 x 84 mm ⁴
Compatible with DualBattery	○	●	●	○	●	●

Technical Details

Kiox



Hardware facts

- ▶ Transmissive 1.9-inch colour display made from unbreakable glass (208 × 274 pixels, 29 × 39 mm active range)
- ▶ Operation of the Kiox via the separate 'Remote Compact'
- ▶ Walk Assist button on the separate 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; one 'On/Off' button and one button for the light directly on the display
- ▶ Brightness sensor automatically controls the brightness of the display during both day and night.
- ▶ Integrated rechargeable battery delivers power in off-board mode for approx. 20 minutes; on-board it is charged from the eBike battery.
- ▶ Rugged and IPx7 waterproof when the USB cap is closed
- ▶ Micro-AB-USB port for diagnostics by your dealer, for charging the Kiox battery and for charging external devices such as compatible smartphones
- ▶ Temperature range: -5 °C to +40 °C (operation) and -10 °C to +50 °C (storage)

Connectivity facts

- ▶ Recording activities
- ▶ The activity list and details of the relevant activity are displayed in the app.
- ▶ Bluetooth connectivity (BLE) for heart rate monitors
- ▶ Software update via app

Additional features

- ▶ Displays the data for the E-Live Valve electronically controllable chassis from FOX (eSuspension)
- ▶ Displays current power, cadence and heart rate
- ▶ Displays current speed in relation to the average speed
- ▶ Support for Shimano and Rohloff integrated electronic gear shifting (eShift)
- ▶ Summary of the current trip in off-board mode
- ▶ Resetting the consumption values for the Drive Unit (trip and range data)
- ▶ Displays the charge state of the eBike battery and smartphone battery in the status screen
- ▶ Service interval display possible

Technical Details

SmartphoneHub



Hardware facts

- ▶ Dimensions: 33 x 93 x 68 (H x W x D)
- ▶ Weight: SmartphoneHub 80 g + Remote Compact 20 g
- ▶ Display: LC display 1.52" (192 x 64 Pixels)
- ▶ Universal mount for different smartphone types (optional mount specially for iPhones available as an accessory)
- ▶ Charging the smartphone: through USB on the hub or directly using iPhone mount (accessory)
- ▶ Intuitive operation via the separate Remote Compact control unit
- ▶ An integrated rechargeable battery 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 brightness of the display during both day and night.
- ▶ Rugged and IP54 waterproof when the USB cap is closed
- ▶ Walk Assist button on the separate control unit
- ▶ Temperature range: -5 °C to +40 °C (operation) and -10 °C to +50 °C (storage)
- ▶ Micro-AB-USB port can be used by your specialist dealers to perform diagnostic tasks and also to charge your smartphone
- ▶ Light option: light control using SmartphoneHub

Connectivity facts

- ▶ Smartphone app for compatible smartphones (Android: at least 4.4; iOS: at least 10.0)
- ▶ Bluetooth connectivity: Bluetooth 4.1 Low Energy
- ▶ 2D/3D offline navigation with voice instructions
- ▶ MinuteCast™: Information on the latest weather conditions, including the likelihood of rain and sunset time
- ▶ Fitness tracking with voice output, average values and individual fitness ranges
- ▶ Automatic route and fitness tracking via Komoot, Strava, Apple Health and Google Fit

Technical Details

Chargers



	Compact Charger	Standard Charger	Fast Chargers*
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 compatible		
	▼	▼	▼
	Charging time		
PowerPack 300	5.0 h	2.5 h	2.5 h
PowerPack 400	6.5 h	3.5 h	2.5 h
PowerPack 500	7.5 h	4.5 h	3.0 h
PowerTube 400	6.5 h	3.5 h	2.5 h
PowerTube 500	7.5 h	4.5 h	3 h
PowerTube 625	8.8 h	4.9 h	3.7 h
DualBattery 1250	17.6 h	9.8 h	7.4 h

*The charging current in PowerPack 300 is limited to 4 A.

Test bench measurement R200

Comparison of battery power and capacity

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.



Robert Bosch GmbH
Bosch eBike Systems

Postfach 1342
72703 Reutlingen
Germany

bosch-ebike.com/nz/
www.facebook.com/boscheBikesystems/