

A woman wearing a white helmet and a dark blue shirt is riding a bicycle on a paved path. The bicycle has a basket full of groceries, including flowers and vegetables. In the background, there are trees and a building. In the foreground, a woman in a white and pink athletic top is jogging, her body slightly blurred to suggest motion.

# Active Line

1000 plans. All within reach.

Bosch eBike Systems 2015



**BOSCH**

Invented for life





Met a lot of friends

Relaxed at the farmers' market

And now a quick trip over to Paula's



## Active Line **1000 plans. All within reach.**

Whether traveling to the farmers' market or taking a trip to the countryside: The Bosch Active Line makes ebiking into cycling with a tailwind you can turn on and off. The balanced drive gives you a harmonious riding experience with the right level of support up to 25 km/h. Three well-engineered components are combined to create a perfectly balanced system that brings together maximum ergonomics with attractive design. The Active Line is now available with noticeably more support and a slightly reduced range.



## Bosch eBike components at a glance



### Intuvia

With the on-board computer Intuvia, you control your eBike experience easily and intuitively. Now also with shift recommendation.



### PowerPack

The rechargeable batteries are available with either 300 Wh or 400 Wh, as frame or rack battery.



### Drive Unit

The Drive Unit of the Active Cruise gives you a unique, natural, and relaxed riding experience up to 25 km/h. Optionally with back-pedal function. Design in Platinum and now also in Black.



### Charger

In addition to the Charger, there is now also the Charger Adapter for Classic+ batteries and the Travel Charger for when you are on the go.

### eShift

New: the integrated shifting solution for more comfortable riding.



reddot design award

# Your mobility is our drive

In our Bosch eBike World, people are always the focus. Before each product development, we have in mind what will really help you with ebiking. That's why we are able to offer a drive system that suits you precisely – and that is always based on five basic ideas:

### Riding sensation

Harmonious or powerful? The main thing is that it needs to feel natural. The Bosch riding sensation creates a unique eBike experience. This is based on the 3-sensor concept, which measures pedal power, cadence, and speed 1000 times per second – and thus provides optimum support during pedaling.

### Range

In every Bosch drive system, perfectly matched components work together so efficiently that you can ride the maximum ranges with your eBike.

### Service

Our commitment to quality goes beyond the drive system and includes a comprehensive eBike service infrastructure. For this, we train Bosch eBike Experts throughout Europe who are available at bike dealers to offer advice and practical support.

### Ergonomics

All our components fulfill the highest standards in terms of ergonomics and ease of use as well as convince with a modern look and feel. Because even the most athletic rider wants to conquer the sporting challenge, not the eBike.

### Design

Aesthetics as part of the riding experience? Anyone choosing their drive not only due to technical superiority but also according to aesthetic criteria has one more reason to be happy: The design of Bosch eBike Systems is excellent. This is confirmed by the Red Dot Design Award.

# Drive Unit

## A miracle of smoothness

Hardly noticeable and yet incredibly effective: The Drive Unit of the Active Line gives you a unique, natural, and relaxed riding experience. This is made possible by a small marvel of engineering: the 3-sensor concept for optimal balancing of forces.

### Three sensors, a thousand measurements, unique riding comfort

The Drive Unit of the Active Line is equipped with three sensors for pedal power, cadence, and speed that provide for optimal tuning with 1000 sensor measurements per second. This gives you sensitive, harmonic support. When the statutory support speed is reached, the motor powers down automatically and harmoniously.

### Even more comfort: Gear shift detection

While you are shifting, the drive adapts its torque to the shifting process. This reduces the stress on the components, cuts down on wear, and also makes you barely feel the shift.

### Backpedal function

With the optional backpedal function, you can have even more riding comfort for your eBike experience if desired.



Just made  
a passing  
maneuver

Great that we're  
touring together  
again

Still plenty of reserve  
in the battery

### Compact and lightweight

Bosch eBike drive systems are designed for maximum ergonomics. The compact gear arrangement allows for optimal integration of the Drive Unit into the frame design, giving you more ground clearance. The reduced volume makes the drive more lightweight.

### Quiet, sturdy, and durable

Due to the precise motor control and the rapid processing of sensor signals, the Drive Unit is optimized for minimal noise and vibration. The secure chain run helps to keep the chain from being derailed or subjected to undue strain. This reduces wear. And maximizes comfort. In addition, the Drive Unit is extremely sturdy thanks to the integrated flying rock guard and spray water protection.



### Award-winning design

The Drive Unit of the Active Line convinces in its refined Platinum version. Now you can get the Drive Unit Active Cruise also in Black.

# Drive Unit

Type	Cruise 25 km/h Hub gear system	Cruise 25 km/h Derailleur system
Power	250 watts	250 watts
Support level (%)	TURBO: 225 SPORT: 150 TOUR: 100 ECO: 40	TURBO: 225 SPORT: 150 TOUR: 100 ECO: 40
Maximum possible drive torque (Nm) (converted to a transmission ratio of 1:1 crankset to chainring)	TURBO: 48 SPORT: 45 TOUR: 40 ECO: 35	TURBO: 48 SPORT: 45 TOUR: 40 ECO: 35
Support up to the maximum cadence (r/min)	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90
Start of speed regulation from cadence (r/min)	TURBO: from 80 SPORT: from 70 TOUR: from 60 ECO: from 60	TURBO: from 80 SPORT: from 70 TOUR: from 60 ECO: from 60
Start behavior	gentle	gentle
Max. support up to	25 km/h	25 km/h
Backpedal function	optional	no
Gear shift detection	no	yes
Weight	< 4 kg	< 4 kg

# Riding modes

## From support to walk assistance

You have the choice. Five riding modes assist you in individual mobility: Eco, Tour, Sport, Turbo, and Off. The additional walk assistance up to 6 km/h makes your life a little easier.

**Turbo** Direct, powerful support up to maximum cadence for ambitious and athletic riding

**Sport** Immediate, powerful support for athletic riding off-road and in city traffic

**Tour** Steady support for long tours

**Eco** Effective support at maximum efficiency for maximum range

**Off** No support, all on-board computer functions are available

# Intuvia

## Your clever control center

With the on-board computer Intuvia, you control your eBike experience easily and intuitively – directly on the device or using the separate control unit on the handlebar. The display, which is easy to read even in sunlight, informs you reliably about range, trip time, average speed, and much more. Even if you remove it from the eBike.

### Precise and comprehensive information

From the distance measurement to the current motor power, with Intuvia you have all important information at the touch of a button. You can easily make adjustments to the wheel circumference yourself. It will now be shown at startup that you are underway with the Active Line.

### Off-board mode

Even when removed from the eBike, Intuvia remains a useful information source that makes it possible for you to view all your tour data.

### Charging of mobile devices

Using the integrated USB interface, you can save time by charging mobile devices such as your smartphone while you are on the go.

### New: Now with shift recommendation

The new feature allows the system to detect whether you are in the optimum efficiency range of the Drive Unit and recommends a higher or lower gear if necessary – using simple arrow symbols. This not only ensures a more comfortable riding experience, but also helps you make the most of your battery capacity.



# eShift

## The electronic solution for integrated gear shifting

Faster shifting, more pleasant riding: eShift makes it possible. The innovative shifting concept integrates the shifting function in your eBike system – and provides not only extra relaxation and comfort but also attractive design as well as more safety due to complete concentration on ebiking. Because fewer components make your handlebar less distracting – as well as more attractive.

### eShift with NuVinci H|Sync

Automatic and based on cadence



### eShift with Shimano Di2

Integrated and electric



### eShift with SRAM DD3 Pulse

Automatic and speed-dependent



As a cadence-based shifting system, the NuVinci H|Sync shifts gears automatically and smoothly according to the desired cadence set by you between 30 and 80 revolutions per minute. This allows you to ride harmoniously and pedal uniformly with one cadence – whether uphill, downhill, or on a flat section. This means more comfort for you and more mileage for the system, which always operates in its optimum range. Alternatively, a manual 5-speed shifting system is possible.

With the integrated hub gear system, you can shift your eBike like a sports car: quickly, precisely, efficiently. Electronically. One tap of the Shimano shift paddle and the system shifts into the next gear. The fun factor increases, along with the range: Because you shift more frequently and are thus more often in the optimal gear ratio. You maintain full control through the display of the selected gear as well as the gear recommendation on the Intuvia display.

The speed-dependent shifting system combines a 3-speed hub gear system with a manual derailleur system. The gearbox hub automatically selects the correct gear according to the speed at which you are currently traveling. Using the derailleur system, you have the option to further adjust your gear ratio. The gears of the hub gear system are displayed at all times on your Intuvia display. Completely without additional user intervention. A real plus in terms of safety and comfort.



### Intuvia display



### NuVinci H|Sync

Cadence or gear



### Shimano Di2

Gear



### SRAM DD3 Pulse

Gear

# PowerPacks

## Optimized for individual mobility

Select the battery that suits you. The Bosch PowerPack is available as a frame or rack battery with either 300 Wh or 400 Wh.

### Best in class: There's nothing lighter

The batteries with unrivaled energy density. How do you benefit? A powerhouse that is so light that its weight is practically negligible during riding.

### Simply ingenious: The handling

Thanks to the handle and mount, the batteries can be easily inserted and removed again. The only thing easier is charging the PowerPacks directly on the eBike.

### High mileage and long life

The Battery Management System (BMS) reliably protects your battery against overload, undervoltage, overheating, and short circuit. A long service life with high mileage is something you can count on.

### Easy to store and charge – anytime and anywhere

Lithium-ion batteries have neither memory nor self-discharge effects. This means the PowerPacks can also be partially recharged at any time – without affecting the service life.

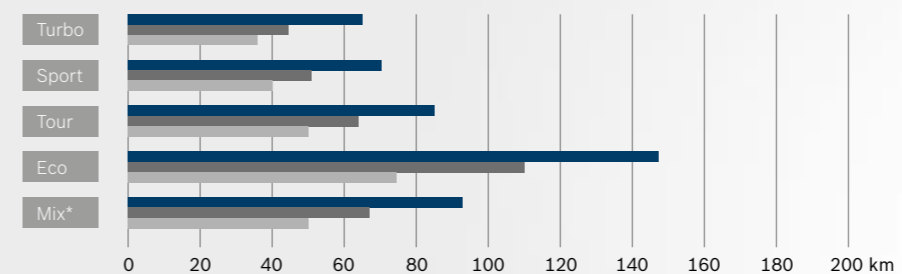


Type	PowerPack 300	
Mount type	Frame battery	Rack battery
Voltage (V)	36 V	36 V
Capacity (Ah)	8.2 Ah	8.2 Ah
Energy content (Wh)	300 Wh	300 Wh
Weight (kg)	2.0 kg	2.4 kg
Size (mm)	325 × 92 × 82 mm	372 × 76 × 122 mm

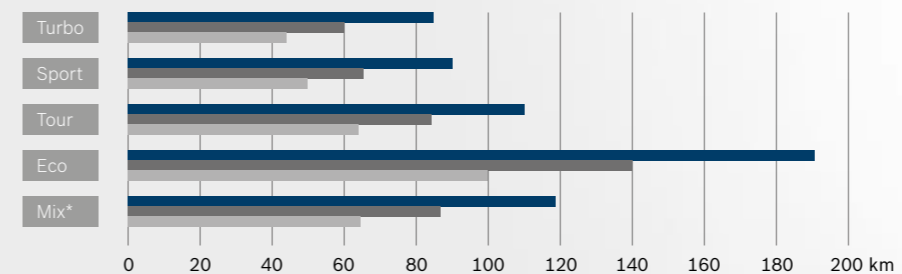
Type	PowerPack 400	
Mount type	Frame battery	Rack battery
Voltage (V)	36 V	36 V
Capacity (Ah)	11.0 Ah	11.0 Ah
Energy content (Wh)	400 Wh	400 Wh
Weight (kg)	2.5 kg	2.6 kg
Size (mm)	325 × 92 × 90 mm	372 × 76 × 122 mm

## Range of the PowerPacks

### Cruise with PowerPack 300



### Cruise with PowerPack 400



\* Average of combined use of all four modes.  
 \*\* The calculated ranges are typical values which can be reduced if any of the conditions listed below worsen. The actual range of the eBikes is the responsibility of the eBike manufacturer.

#### ■ Ideal conditions\*\*

Flat terrain, approx. 15 km/h average speed, no headwind, approx. 20°C ambient temperature, high-quality bike components, tire tread and pressure with minimal rolling resistance, experienced eBike rider (always shifts gears correctly), additional weight (excluding bike weight) < 70 kg.

#### ■ Favorable conditions\*\*

Slightly hilly terrain, approx. 20 km/h average speed, slight headwind, approx. 10°C to 20°C ambient temperature, medium-quality bike components, tire tread and pressure with average rolling resistance, favorable cadence, eBike rider shifts correctly most of the time, additional weight (excluding bike weight) 70 kg to 80 kg.

#### ■ Difficult conditions\*\*

Terrain with long and steep inclines at 25 km/h average speed, possibly strong headwind, < 10°C ambient temperature, bicycle components with relatively low efficiency, tire tread and pressure with increased rolling resistance, unfavorable gear selection / cadence, additional weight (excluding bike weight) > 85 kg.



# Charger

## Faster charging made easy

The Chargers are compact, lightweight, quiet, and robust. And above all, really fast. So you can enjoy your eBike experience with as little interruption as possible.

### Loses no time: The Bosch eBike Charger

With the Bosch eBike Charger, the PowerPack 300 and PowerPack 400 are fully charged in no more than 2.5 and 3.5 hours. A 50% charge is reached after just 1 hour with the PowerPack 300 and after 1.5 hours with the PowerPack 400.

### Compact and lightweight

With extremely compact dimensions of just 190 mm × 86 mm × 54 mm, the Bosch eBike Charger with cables weighs less than 800 g – including the hook-and-loop tape for cable stowing. Easy to take along anywhere.

### Quiet and robust

The Charger charges without annoying sounds and is sturdy and resistant to dirt through its lack of vents.



New: Charger with Charger Adapter

### Standard Charger

Type	Universal Standard Charger
Charging current	max. 4 A
Voltage range	230 V
Dimensions	190 mm × 86 mm × 54 mm
Cable lengths	AC input: 1.5 m, DC output: approx. 1.0 m
Plug	power plug
Weight	approx. 800 grams
Compatibility	compatible with Active Line and Performance Line, compatible with Classic+ Line via Charger Adapter
Charging time	300 Wh 50 % in approx. 1 h, 100 % in approx. 2.5 h 400 Wh 50 % in approx. 1.5 h, 100 % in approx. 3.5 h

### Travel Charger

Type	Universal Travel Charger
Charging current	max. 2 A
Voltage range	12 V
Dimensions	190 mm × 86 mm × 54 mm
Cable lengths	DC input: approx. 1.0 m, DC output: approx. 1.0 m
Plug	12 V cigarette lighter + 12 V on-board power socket (via adapter cap)
Weight	approx. 800 grams
Compatibility	compatible with Active Line and Performance Line, compatible with Classic+ Line via Charger Adapter
Charging time	300 Wh 50 % in approx. 2.1 h, 100 % in approx. 5 h 400 Wh 50 % in approx. 2.8 h, 100 % in approx. 6.5 h

### New: The Travel Charger

With the new Travel Charger, you can charge your eBike on the move – using the cigarette lighter or the 12 V on-board power socket of your car or motorhome. For charging the eBike battery, the Travel Charger is equipped with a discharge protection function for the car battery. The Travel Charger will be available from specialist dealers starting at the end of 2014.

### New: The Charger Adapter

With the Charger Adapter, you can now charge your Classic+ Line batteries with the current Bosch eBike Chargers. The Charger Adapter will be available from specialist dealers starting at the end of 2014.

# Performance Line

Give everything.  
Get even more back.



For those who prefer extra momentum when ebiking, we offer the sporty eBike system Performance Line.



**Robert Bosch GmbH**

Bosch eBike Systems

Postfach 1342  
72703 Reutlingen  
Germany

**[www.bosch-ebike.com](http://www.bosch-ebike.com)**

**[www.facebook.com/boschebikesystems](https://www.facebook.com/boschebikesystems)**