



open your mind.



>> Charged up. And ready to go.

smart electric bike.

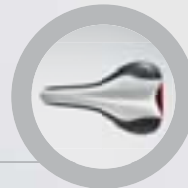
## >> Set to take the city by storm.

### Urban mobility on two wheels.

Cities are in constant motion. Changing and evolving – every minute of every day. This means that traffic in particular is constantly faced with new challenges. Which is why smart is looking for ways to make getting around in urban areas better and easier. With ideas that already answer tomorrow's questions and that challenge the status quo.

For example: Is it possible to travel around the city quickly and easily on two wheels? A question to which the smart electric bike (smart ebike) offers its own unique answer. It takes the innovative power of smart and transfers it from the fast lane to the bicycle lane. With a pedelec (Pedal Electric Cycle) that combines clever functions with advanced technology and outstanding design. This not only makes your journey more enjoyable, but also easier: the electric motor assists you as you pedal, providing you with the energy you need to reach your destination. So while the city keeps on moving, so do you.

Available in crystal white/electric green, the smart electric bike initially comes with a black and white saddle. If you prefer, this can be replaced with a green and white saddle, available from your local smart dealer as of autumn 2012.



The smart electric bike comes with mudguards and an integrated lighting system, meeting all the requirements of the road traffic regulations.





**AS DIFFERENT AS YOU WOULD  
EXPECT: TYPICALLY SMART.**

When it comes to design, the smart ebike is also streets ahead.





## >> Functionality in fine form.

The design speaks a clear language.

The smart ebike brings a whole new aesthetic dimension to cycling – an electric bike that bears the clear hallmarks of a smart, setting itself apart from conventional pedelec design. And with key components that were designed specially for the smart ebike. The final result is typically smart with its two-colour concept and mix of materials. The spokes that round off the overall look also have the characteristic smart style.

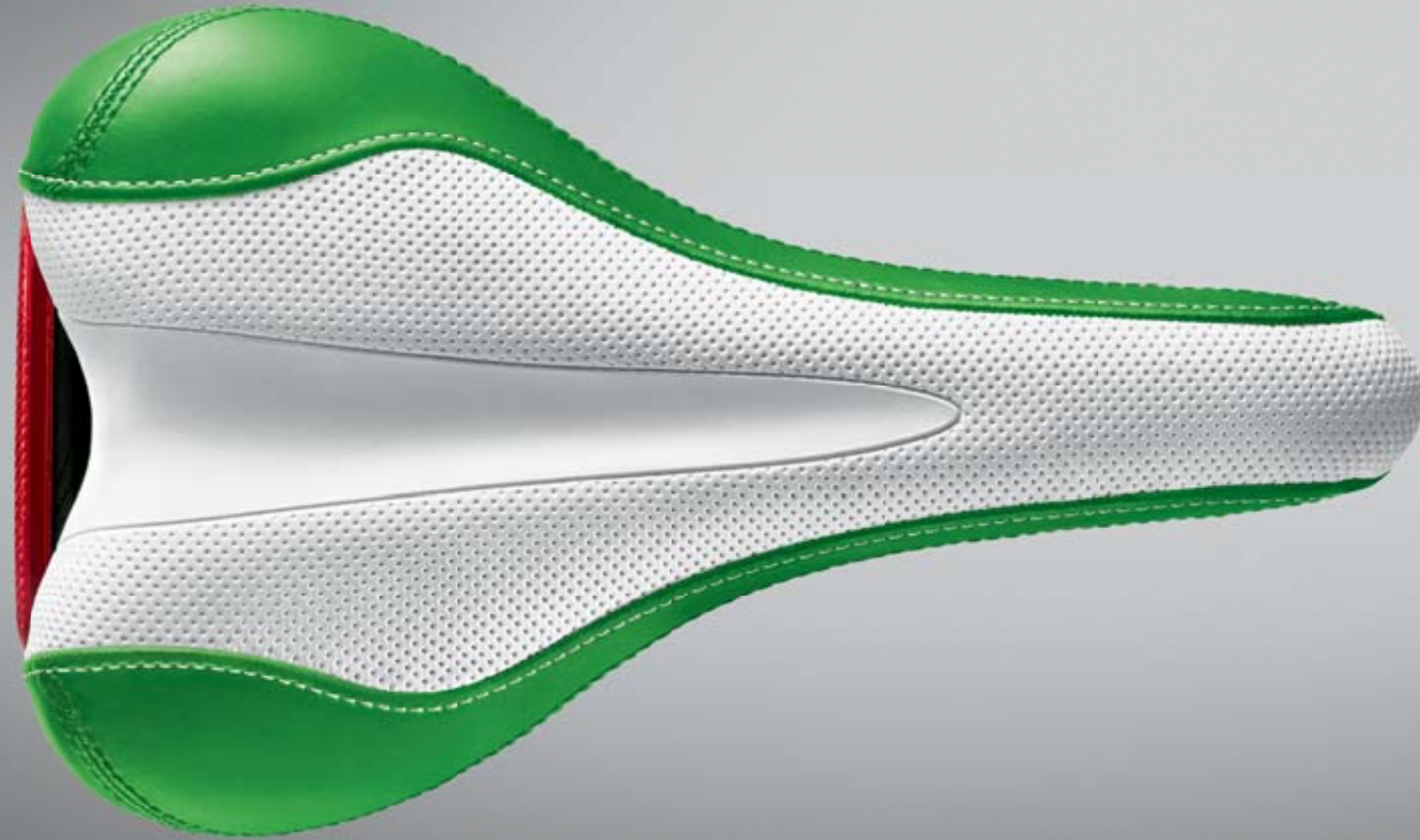


reddot design award  
best of the best 2012



A frame that shows off the unique design idiom to great effect. The battery housing is integrated seamlessly within the overall concept, its material and colouring forming a striking contrast with the aluminium frame. Making the smart ebike unmistakably smart.





Made of high-quality materials, the saddle is not only comfortable, but also catches the eye with its dynamic styling and two-colour look.

A young man with curly brown hair, wearing a black tank top and a medal, looking intensely at the camera. The background is a plain, light gray.

## UPGRADES FOR TWO WHEELS.

What makes the smart ebike so special.



## >> Getting into gear for you.

The motor gives you a power boost.

It is the electric drive that makes a pedelec a pedelec, assisting your muscle power as you pedal. With every push on the pedals, you will see how easy it can be to master even the toughest routes effortlessly. This is made possible by the maintenance-free and brushless rear-wheel hub motor from BionX, which offers four levels in drive mode. This means that you can always decide how much assistance you want from the 250 watt\* electric motor as you ride. The electric motor assists you up to a speed of 25 km/h, and higher speeds can be reached with conventional pedalling.

Needless to say, the smart ebike can also be used for regular cycling without power assistance: simply switch off the drive system and continue pedalling in bicycle mode. Or you can select one of the four generator levels and decide to what extent you want to recharge the battery whilst pedalling or riding downhill. Whether in bicycle, drive or generator mode, the gears are changed via a 3-speed gear hub from SRAM. Incidentally, pedelec riders don't need any insurance or a driving licence and are entitled to use cycle paths.



**Full power ahead:** four bars in the basic display indicate the drive levels.



**Full energy back:** four bars in the basic display indicate the generator levels.

\* Figure applies to Germany. Country-specific deviations possible – see “Technical Data” section.



## >> Energy in its most elegant form.

A battery you can feel but not see.

The smart ebike's battery contributes to the clear design idiom, harmoniously integrated in the frame yet remaining a powerful presence every time you pedal. With 423 nominal watt hours, the compact lithium-ion battery is among the most powerful on the market. This means that it can cover up to 100 km – depending on the cyclist, the cycling style, the topography of the route and the drive or generator level selected. The battery's position also helps to ensure safe, stable handling: integrated in the frame triangle, it serves as an ideal counterweight to the motor in the rear wheel.



## >> Always powered up.

Charging the battery couldn't be easier.

Wherever your smart ebike takes you, a power outlet won't be far away to charge up for your next 100 km of fun. Simply insert the battery, charge it and hit the road again. The smart ebike can be connected to any normal household socket using the charger\*. Alternatively, you can open the battery lock, take the battery (which weighs around just 3 kg) out of the frame and charge it separately. A completely empty battery is fully charged after around five hours – when the LED charge indicator on the battery housing changes to green.

And if no power outlet is available, you can charge the battery with your own pedalling power. To do so, select one of the four generator levels in the basic display. This will turn the motor into a generator, allowing the battery to recharge as you cycle.

\* Included in the scope of supply.



## >> **Freedom. No more chains.**

The carbon toothed belt will  
take you to your destination.

By replacing the standard bicycle chain with a carbon toothed belt – 118 teeth on a high-strength carbon fibre belt – the smart ebike eliminates all the problems traditionally associated with bicycle chains.

The toothed belt combines a number of important advantages: it lasts twice as long as a chain, requires neither lubricant nor maintenance, does its job quietly and weighs in at a mere 80 grams. And what's more it also looks good.





## >> Up to speed at any speed.

The console shows the way.

Regardless of whether you want to know where you are or how far you've already come, the information console takes pride of place on the handlebars of the smart ebike. Meaning that you have everything firmly under control and all the information you need right in your field of vision.

### Smartphone cradle\*:

With the optional smartphone cradle, your mobile device will have its own secure place on your smart ebike. In this way, you can use your smartphone to navigate easily to the destination of your choice. Thanks to the USB interface that comes as standard, you can also charge it during the journey. A smart ebike app, with special functions designed for the smart ebike, will be available from autumn 2012.



### Basic display:

The basic display, a standard feature, is the nerve centre of your smart ebike, allowing you to control basic functions such as drive and generator levels or light – or to check the time, trip kilometres or remaining power. As well as this, the basic display always shows you the current speed and, at the press of a button, the average speed as well. When removed, it serves as additional protection against theft, as the motor will only start when the basic display is fitted.

\* Available from autumn 2012. Please also see accessories page.

## » Braking away.

Brakes that enhance safety and generate energy.

The brakes on the smart ebike offer two important benefits: the added safety provided by the premium disc brakes and the higher battery charge resulting from the use of released kinetic energy.

The Magura hydraulic disc brake system ensures high braking power and braking safety, even in wet weather, thanks to the 180 mm perforated brake discs. In addition, the wheel brake controls the recuperation of braking energy. Operating the brake lever is all that is needed to trigger this function – it interrupts the assistance from the electric motor and the kinetic energy is channelled into the battery instead. The energy recuperation can also be set manually on the basic display. This is useful on long downhill slopes, for example.



## >> Progress as standard.

The highlights of the smart ebike.

### Battery:

With 423 watt hours, you can cover up to 100 kilometres.

### Motor:

With 250 watts\* at your disposal, you can travel through the city quickly and comfortably. In generator mode, the motor also serves as a provider of energy.

### Carbon toothed belt:

Made of high-strength carbon fibre, the highly reliable toothed belt transmits power to the rear wheel without the need for lubricant or maintenance.

### Console:

The basic display allows you to keep track of everything whilst you're on the road – and you can even connect your smartphone to the standard USB interface.

### Brakes:

The hydraulic disc brakes give you added braking safety.



\* Figure applies to Germany. Country-specific deviations possible – see “Technical Data” section.





## **FROM AN EBIKE TO A ME-BIKE.**

Put together your own personal smart ebike.

## >> Twice as unique.

### Colouring to the power of two.

One glance is enough to recognise a smart. And the typical two-material and two-colour concept is every bit as unmistakable when applied to the smart ebike. The smart ebike comes in two attractive colour variants: in crystal white with electric green accent trim parts and in matt dark grey with flame orange accent trim parts. Whichever you opt for, both variants exude sportiness with elegantly contrasting accents on the saddle, bottom bracket bearing, disc brakes, bell and handlebar grips.



crystal white with electric green accent trim parts



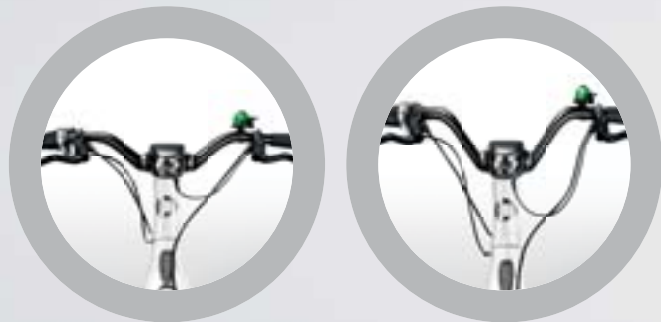
matt dark grey with flame orange accent trim parts



## >> Every bit as unique as you are:

### Accessories that open up new opportunities.

Everyone is individual. And that's how it should be. Which is why the smart ebike can easily be adapted to your height and personal needs. So that you feel free and at ease every inch of the way – just the way you are. As well as the right saddle, this calls for the right seating position. Two seatpost variants and two handlebars are available – simply select the combination that is the most comfortable for your height. With a luggage rack and smartphone cradle, you will be prepared for whatever life has in store for you.



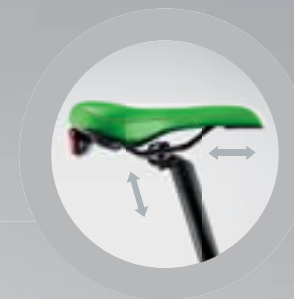
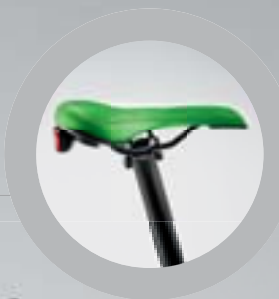
**The handlebars** come in two variants: either low and sporty (standard ex works) or raised and comfortable (accessory), so that you can choose the most comfortable seating position for your height.



**The smartphone cradle\*** gives your mobile device its own secure place on your ebike. Thanks to flexible bracket arms, it is suitable for all screen sizes between 3.5" and 4.3". Horizontal and vertical format is manually adjustable.

**The luggage rack\*** can turn your trusty metal steed into a pack mule whenever necessary. And you can store other small items in the integrated net pockets\*\* – another typically smart solution.

**The seatpost** comes in two variants: straight (standard) or angled. Your local smart dealer will adjust the seatpost to your height.



\* Available as of autumn 2012.

\*\* Similar to pictured.



## >> Whatever your plans are.

The ebike collection will fit right in.

The right accessories for every occasion: from a shopping trip to a day out or the daily ride to work, the collection offers the right mix of design and functionality. The smart ebike collection draws on two key smart elements – the clear design idiom and the typical two-colour look. From the jacket to the bicycle lock, helmet or bag, all accessories are designed to enhance that smart look.

**Shoulder bag.** Everything you need to have at hand, safely protected from the elements. Waterproof, with net pocket for a water bottle, removable padded laptop sleeve and adjustable shoulder strap. Dimensions: approx. 40 cm x 34 cm x 15 cm.



**Jacket.** Neither too warm nor too cold – but just right. Windproof, breathable and waterproof up to a water column of 5000 mm. With a hood that stows in the collar. 100% polyurethane. Sizes: XS–XL women (crystal white/electric green). S–XXL men (dark grey matt/flame orange).



**Helmet.** The handsome protector. 21 air vents and fly net. Weight with eyeshade approx. 285 g. Complies with the following standards: EN DIN 1078/TÜV GS/CE/CPSC. In crystal white/electric green or dark grey matt/flame orange. Sizes 52–57 cm (XS/S) and 55–60 cm (M/L).

**Bicycle lock.** Stylish theft protection with innovative link construction. Maximum protection and flexibility, very quick to use. Low weight, compact lock dimensions, comes with transport bag. Length: 90 cm.

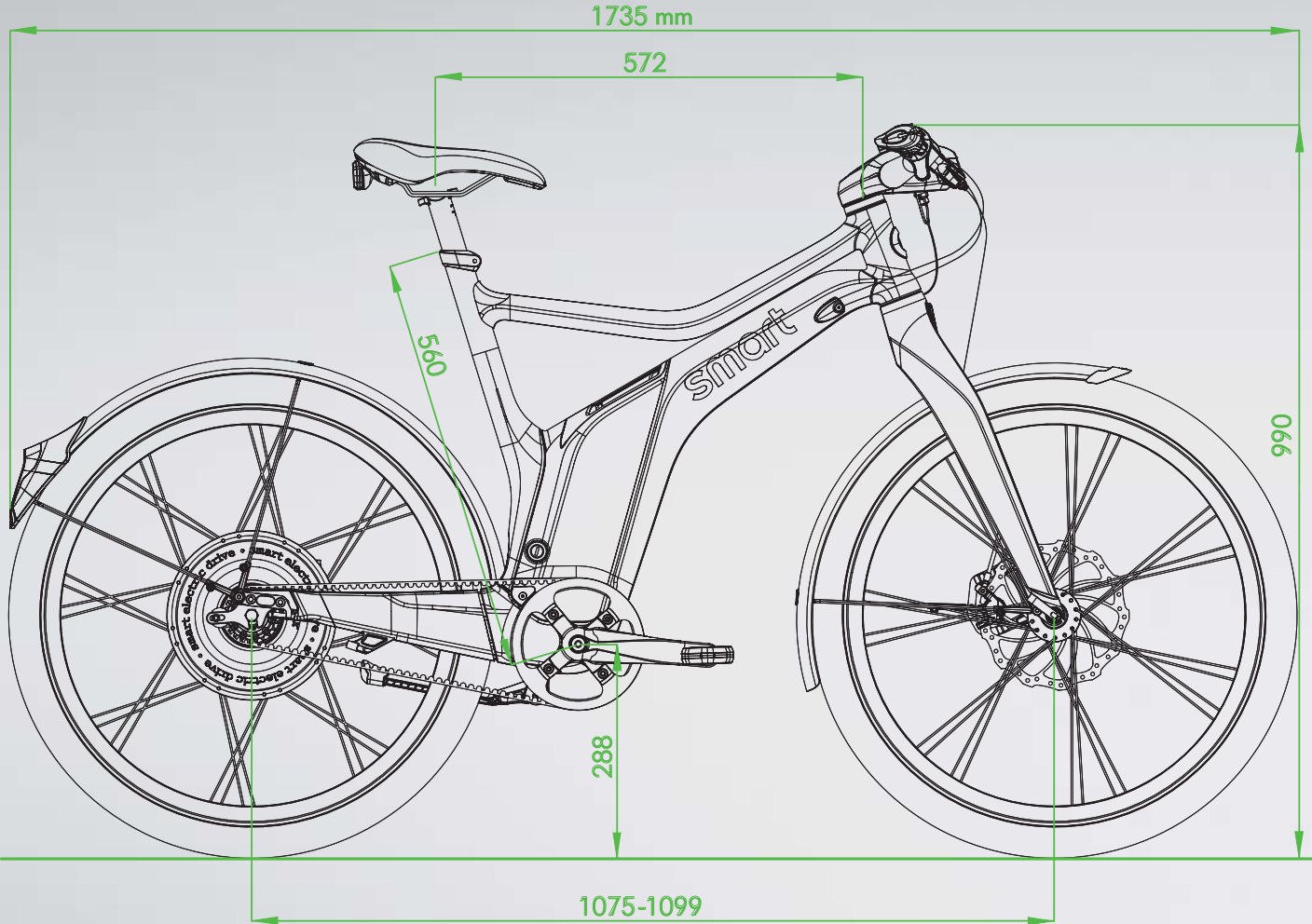


**Luggage rack bag.** Plenty of room for everything you need. Waterproof, made of polyester. Various interior compartments, adjustable buckle closure, with room for A4 documents and notebook up to 15.4". Padded, anti-slip shoulder strap. Dimensions: approx. 36 cm x 34 cm x 14 cm.



## **PEDAL TO THE METAL.**

Technical data for the smart ebike.



smart ebike – technical data

|   |  |                                |   |
|---|--|--------------------------------|---|
| <b>smart ebike:</b>                     | Pedelec (Pedal Electric Cycle)                       | <b>Fork:</b>                   | smart design  |
| <b>Drive:</b>                           | brushless BionX electric rear-wheel hub motor        | <b>Material:</b>               | aluminium   |
| <b>Power:</b>                           | 250 W nominal*                                       | <b>Headset:</b>                | CaneCreek   |
| <b>Max. speed for propulsion boost:</b> | 25 km/h**  | <b>Lighting:</b>               | Busch & Müller, smart design  |
| <b>Max. torque:</b>                     | 35 Nm  | <b>Lighting – front:</b>       | LED technology with daytime running lamp function                       |
| <b>Gear shift:</b>                      | integrated SRAM I-Motion 3 (3-speed hub gear system) | <b>Lighting – rear:</b>        | LED technology with daytime running lamp function                       |
| <b>Recuperation:</b>                    | yes  | <b>Tyres:</b>                  |   |
| <b>Drive/generator levels:</b>          | 4 each   | <b>Tyres (front/rear):</b>     | Continental EcoContact Plus, 26" x 1.75"                                |
|   |  | <b>Spokes (front/rear):</b>    | smart design  |
| <b>Battery (removable):</b>             |  | <b>Brakes:</b>                 |   |
| <b>Type:</b>                            | lithium-ion  | <b>Type:</b>                   | Magura MT4, hydraulic disc brakes, Ø 180 mm, with recuperation function |
| <b>Capacity:</b>                        | 423 Wh   |                                |   |
| <b>Voltage:</b>                         | 48 V   | <b>Handlebars:</b>             | smart design  |
| <b>Weight:</b>                          | 3.3 kg   | <b>Grips:</b>                  | Ergon GP1   |
| <b>Charging time:</b>                   | (0–100%) approx. 5 hours<br>(20–80%) approx. 3 hours | <b>Handlebar stem:</b>         | smart design  |
| <b>Charging cycles:</b>                 | 500 (at 80% residual capacity)                       | <b>Pedals:</b>                 | Ergon PC2   |
| <b>Range:</b>                           | Up to 100 km***                                      | <b>Saddle:</b>                 | smart design  |
| <b>Belt:</b>                            |  | <b>Weight:</b>                 | 26.1 kg   |
| <b>Type:</b>                            | Gates carbon toothed belt 118 T                      | <b>Max. load:</b>              | 114 kg (incl. luggage)  |
| <b>Belt pulley – front:</b>             | Gates CDC 5 0T                                       | <b>Dimensions (W x L x H):</b> | 75.5 cm x 173.5 cm x 99 cm  |
| <b>Belt pulley – rear:</b>              | Gates CDC 22T  |                                |   |
| <b>Frame:</b>                           | smart design   |                                |   |
| <b>Material:</b>                        | aluminium  |                                |   |
| <b>Size:</b>                            | M  |                                |   |

\*Reference Germany. Country-specific deviations: 250 Watt for EU countries, except UK, 200 Watt for UK, 350 Watt for USA/Canada.

\*\*Higher speeds possible with pure muscle power.

\*\*\*Depending on cyclist, cycling style, the topography of the route and the drive and generator level.



**smart infocentre**

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