



Always in the right gear – wherever you are

Pure riding pleasure with the *FAG VELOMATIC* automatic bicycle gearshift system

SCHAEFFLER

FAG

Automatically at an advantage

The German Federal Statistics Office estimates that cyclists will cover 24.8 billion km in 2015. And to ensure pure riding pleasure for every single kilometer, Schaeffler has developed the *FAG VELOMATIC* gearshift system.

You can use the corresponding *VELODAPTIC* app to create customized shifting programs that allow you to relax and enjoy your cycle ride in comfort and safety – so you can unwind and let the automatic gearshift system do the rest.

The perfect combination:

FAG VELOMATIC & VELODAPTIC

› For every **BICYCLE TYPE**

Conventional bikes and e-bikes

› For every **DRIVE**

Derailleurs and hub gears

› For every **RIDING SITUATION**

Uphill, downhill, straight, and stop-and-go

› For **EVERYONE**

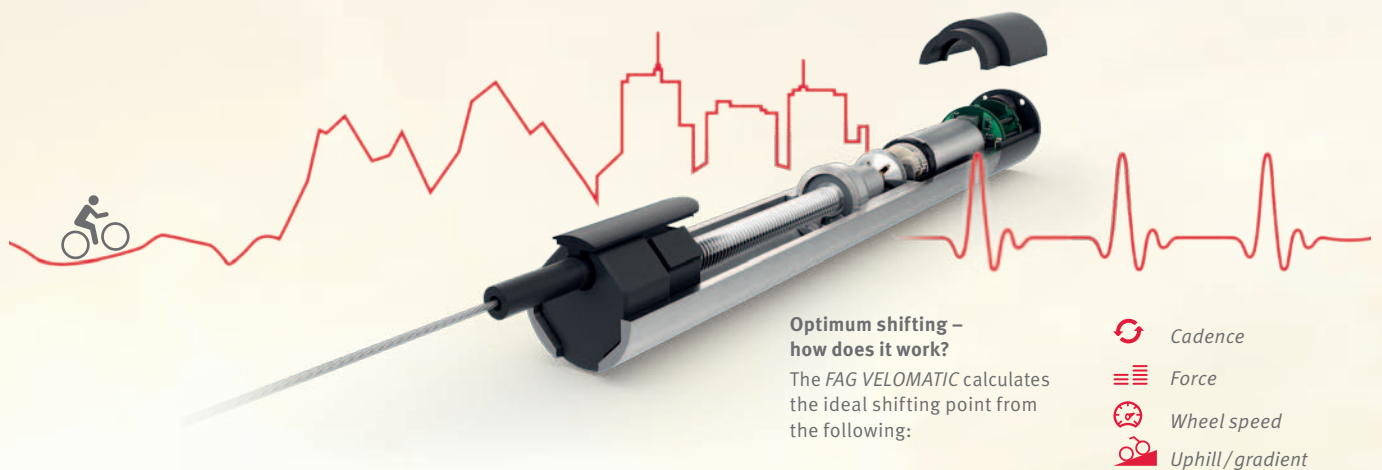


The heart: The *FAG VELOMATIC*...

... that beats for top-class riding comfort.





Whether traveling straight, going uphill or downhill, on a conventional bike, with a derailleur or hub gears, or on an e-bike, the *FAG VELOMATIC* automatic bicycle gearshift system always

calculates the optimum gear and the perfect shifting point based on the cadence, force, wheel speed, and gradient. This ensures excellent riding comfort with maximum flexibility.



Optimum shifting – how does it work?

The *FAG VELOMATIC* calculates the ideal shifting point from the following:

-  Cadence
-  Force
-  Wheel speed
-  Uphill/gradient

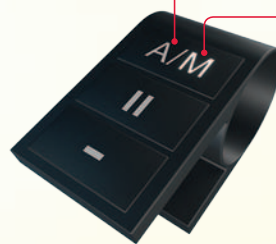
The *FAG VELOMATIC* is so comfortable to use that you can even shift gears manually.

A

Take control any time you want.

Automatic mode

You don't have to shift gears yourself, but the *FAG VELOMATIC* gearshift module allows you to intervene at any time when in automatic mode.



M

Get in gear all by yourself.

Manual mode

You shift gears manually, e.g. when you want a sportier ride.

The electric gearshift module communicates wirelessly with the FAG VELOMATIC via ANT+. Safety is king – the gearshift module is easy to operate while riding.



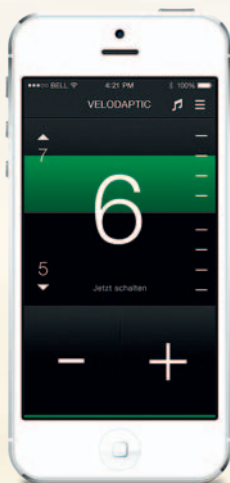


...and the mind: The **FAG VELODAPTIC** app

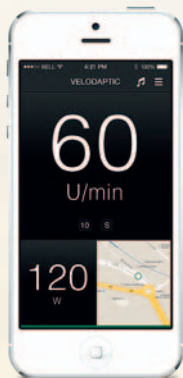
Individual gearshift intelligence inside.

With the **VELODAPTIC** app, you can create customized shifting programs to suit your riding style: That means everyone always

stays in the right gear, without having to shift manually. The app accompanies you on the road and records your GPS, movement, and performance data.



*Always in the right gear:
The **VELODAPTIC** app*



A clear overview is important. The cockpit displays three sets of movement data, which the user can click through



The rider can choose between daytime and nighttime mode, depending on the light conditions



Map function with route planner



Statistical data can also be exported to a home computer



Movement data

- › Speed
- › Cadence
- › Force
- › Torque
- › Uphill/downhill gradient
- › Distance
- › Position
- › Compass function

GPS data

- › Location

Statistical evaluations

- › Kilometers traveled
- › Altitude in meters
- › Calories burned
- › Force used
- › Cadence
- › Torque
- › Average speed/top speed



Available for tablet computers and smartphones



Flexible display



Social media connection:
Share your routes and profiles*

*Being planned

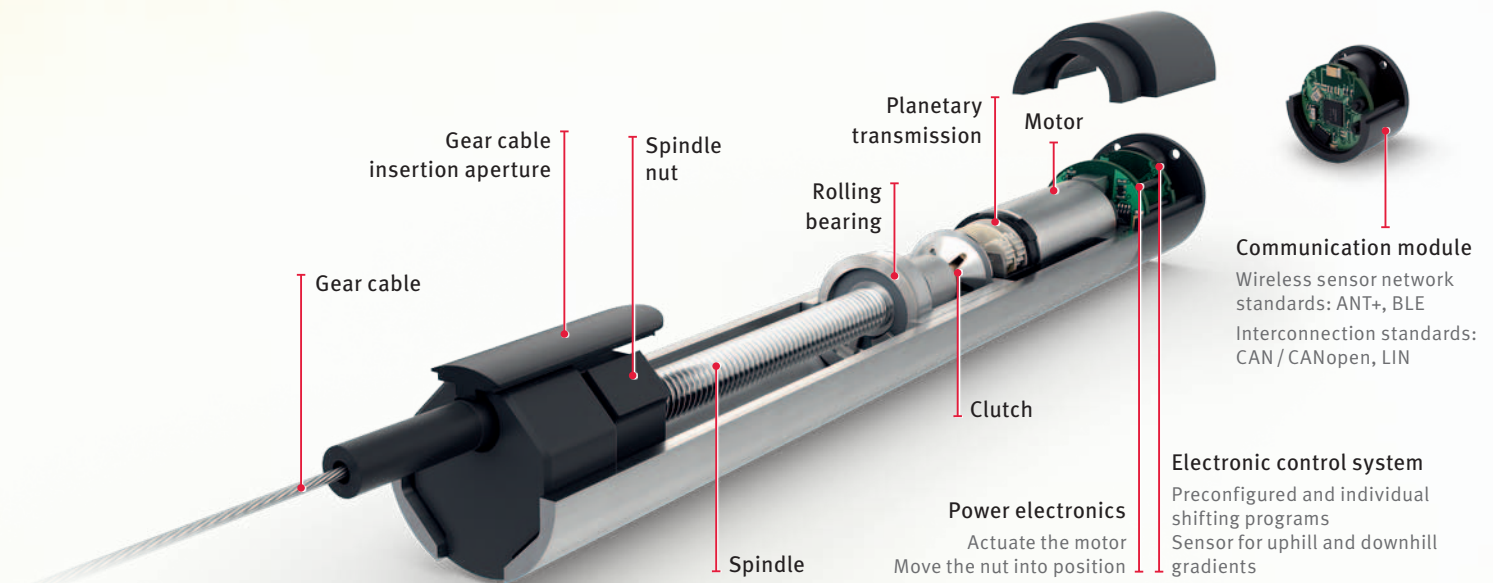


Expertise meets performance

This innovative Schaeffler solution scores points with its intelligence, precision, efficiency, and sheer flexibility. It provides maximum individual configurability – for every bicycle type, every drive system, and every riding situation. And fun comes as standard!

- Intelligence**
- › Special algorithms calculate the ideal shifting point at all times
 - › Sensors for uphill and downhill gradients
 - › Situation-based gear shifting: The riding situation is calculated in advance
 - › The *VELODAPTIC* app displays movement data, provides statistical evaluations, and allows individual shifting programs to be created and exchanged
- Precision**
- › Rapid and precise shifting
 - › Prevents gearshift errors
 - › Smooth shifting with no noticeable transitions

- Efficiency**
- › Low weight and compact design
 - › Makes sparing use of the e-bike's battery and thus provides more range, so cyclists can enjoy riding for longer
 - › Prevents premature wear on the bicycle's chain and gearshift system
 - › Cyclists' endurance gets a boost and longer routes become easier
- Flexibility**
- › Compatible with components from other manufacturers thanks to open standards
 - › Suitable for conventional bicycles and e-bikes, and for derailleurs and hub gears



In perfect harmony

The *FAG VELOMATIC* is connected to the drive, the *FAG VELOMATIC* gearshift module, and the *VELODAPTIC* app on the rider's smartphone via the communication module.

Schaeffler Technologies GmbH & Co. KG

Georg-Schäfer-Strasse 30

97421 Schweinfurt

Germany

Internet www.fag-velosolutions.com

E-Mail lev-bike-sport@schaeffler.com

In Germany:

Telephone 0180 5003872

Fax 0180 5003873

From other countries:

Telephone +49 9132 82-0

Fax +49 9132 82-4950

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