

2014/2015



■ **POWERFUL, SILENT AND INNOVATIVE**
PROVEN E-BIKE DRIVE –
NOW WITH SMARTPHONE CONNECTIVITY

■ SO WHY... ... A REAR WHEEL HUB MOTOR?

*Which motor is best?
For 125 years now, the car industry
has always given the same answer:
“It all depends.”*

■ SILENT – DYNAMIC – MAINTENANCE-FREE... ... IN ONE WORD: IMPRESSIVE!

After the trend in recent years towards a central motor, an increasing number of providers are now rediscovering the rear wheel hub motor. Why?

One of the reasons: E-bike users are getting younger and more demanding – they want their dream e-bike to stand out from run-of-the-mill products.

Another reason: The motor’s technical characteristics and its hitherto unparalleled driving dynamics. This means that rear wheel hub motors are the first choice for suppliers of sporty dynamic e-bikes at the highest technical levels, as well as for manufacturers of special bikes. Some of the most demanding and ambitious bikes have been successfully using motors from GO SwissDrive for some years now. When it comes to the fast pedelec category with assistance up to 45 km/h, we are a market leader.

■ ARGUMENTS FOR THE GO SWISSDRIVE SYSTEM IN BRIEF



MORE DYNAMIC

Rear wheel motors provide powerful acceleration, high flexibility, quiet running and generous spare capacity. With nominal output of up to 500 watts (peak power of around 1,000 watts) and genuine 45 Nm torque, GO SwissDrive sets the standard, when motors are compared on a like-for-like basis.



POWER WHERE IT HAS GREATEST EFFECT

Directly on the rear wheel hub. Without any detours. And without unnecessary wear on chain and pinion. Can be combined with derailleur gears or crankset gears. Like the high-tech gearsets from Pinion, for instance.



PRACTICALLY INAUDIBLE

The great thing is that you can't hear the GO SwissDrive motor. Running at 18 to 25 decibels, it emits just a whisper of a sound. Quieter than a quiet bedroom at night. And the design means it is a lot quieter than a comparable central motor.



MORE ENERGY VIA RECOVERY

Energy recovery (recuperation) and less wear on the brakes when riding downhill. Known also in Formula 1 as KERS (Kinetic Energy Recovery System), it is only possible on rear wheel hub motors. Can be set to a minimum of two levels on a GO SwissDrive.



FULL SYSTEM INTEGRATION

An extremely robust bolted aluminium casing means that our motor and torque sensor enjoy excellent protection. This is a definite advantage over other manufacturers and motor systems.



INDUSTRY STANDARD PROTECTION

The GO SwissDrive motor is tested to industry standard IP64, designed to prevent the ingress of dust or spray. This robust quality protects customers who use their bike in harsh conditions, such as when carrying out delivery services or engaging in mountain biking.

■ THE MOTOR UNIT – PROVEN QUALITY IN DIFFERENT VARIANTS

Our rear hub motors have proven themselves for many years even under the harshest conditions. For example in e-bikes for delivery services at a mileage of more than 100,000 kilometers.

You have the choice between four different variants: From 250 Watt for a normal pedelec according to EU-legislation, up to 500 Watt (peak performance approximately 1,000 Watt) for powerful and strong e-bikes / pedelecs of the fast class.

- All motors with integrated controller
- Integrated patented torque sensor: contactless and maintenance-free
- Brushless and special design for low free-wheeling resistance
- Adjustable by software
- Dust and water-splash protection according to industry standard IP64
- Recuperation / energy recovery mode in at least two levels (depending on model)
- Suitable for bike cassettes up to 30-speed derailleur gears (compatible for 11-speed drivetrain)
- Ideal for combination with bracket gearing systems (e.g. 18-speed Pinion gearbox)
- Disc brake mount
- BikeBus: digital communication between all parts



■ CUSTOMIZE YOUR DRIVE

Renowned e-bike manufacturers not only rely on our drive system and our service, but also on our customizing competence. Adaption of colours, logo placement and individual configurations on motor, batteries and display ensure optimal adaptation according the needs of our customers and lead to a strong individual brand appearance.

■ MOTOR VARIANTS AVAILABLE

Motor	Nominal power *	Max. Torque *	Max. speed	Weight **	Typical application
Cruise	250 W	37 Nm	25 km/h	4,7 kg	Pedelec
Standard	250 W	40 Nm	42 km/h	5,3 kg	Allround
Mountain	500 W	45 Nm	32 km/h	5,6 kg	Mountain
Power	500 W	45 Nm	45 km/h	5,6 kg	Fast pedelec

* at tested current 25A ** including freewheel body

■ EVO DISPLAY – NEW AND EASY TO RETROFIT

- 3.2" full color TFT Display
 - With transfective display technology
 - Full sunlight readable
 - Resolution 240*320 / 16 bit color
- USB A Connector for Service and Charging
 - Charging of USB devices up to 5V / 1A
 - Storage of collected trip data on USB devices
 - Update of the Drive System via USB
- Ready for Bluetooth 4.0 communication
 - Visual phone call Indicator / Smartphone integration
 - Service data exchange
 - Ready for adaption of different Bluetooth functions via Smartphone-App
- Good vibration protection; water and dust-resistant according to IP65
- Ambient light sensor and automatic drive light control (with supported bike lights)
- Center mounted plus ergonomic handlebar remote
- Customizable design
- Anti-theft protection



■ FUNCTIONS

3 different Riding Screens:

- Screen 1: Speed, actual consumption in Watt, remaining range and 2 other values (e.g. distance or average speed)
- Screen 2: Tour-data: Distance, riding time, average consumption, average speed, maximum speed
- Screen 3: stopwatch with counting of time and trip

Further Non-Riding Screens:

- Screen 1: Total-data: Distance, riding time, average consumption, average speed, maximum speed
- Screen 2: Smartphone functions
- Different other screens for service and configuration

■ EVO REMOTE CONTROL

- 4 buttons for interaction with the system
- Separate On/Off button allows use for fast e-bikes / pedelecs
- Start of walking mode
- Different colour options
- Switch lights On/Off
- Mountable near to handlebar grip
- Ergonomic design allows excellent interaction in every situation
- Can be mounted on the right or left
- Customised colours

Button for confirmation of settings

*+ and – button for 5 power levels
and 2 regenerative levels*

*Menu button to
change the screens*



■ STANDARD-DISPLAY

- Adjustable LCD Display including operating buttons
- Clearly visible and easily mountable near to handlebar grips
- BikeBus Communication
- Speedometer functions:
 - Current speed
 - Average speed
 - Max speed
 - Trip km
 - Total km

Drive system functions:

- 5 power and 3 recuperation / energy recovery levels
- Walk mode
- Display of battery capacity
- Remaining range
- Actual energy consumption
- Average energy consumption



■ DOWNTUBE BATTERY V1

- New: 15.5 Ah and 558 Wh capacity
- Produced by German Partner BMZ
- Compact design with high capacity
- 10S5P
- Up to 25A
- Min. 500 cycles with 70% remaining capacity
- RoPD (Magnetic) Connectors
- 2 and 5 ampere chargers available



■ DOWNTUBE BATTERY V2

- 12,4 Ah and 446 Wh capacity
- Produced by German Partner BMZ
- Easy mountable design
- 10S4P
- Up to 20A
- Min. 500 cycles with 70% remaining capacity
- RoPD (Magnetic) Connectors
- 2 and 5 ampere chargers available



■ REAR RACK BATTERY

- 12,4 Ah und 446 Wh capacity
- Produced by German Partner BMZ
- High-quality Tubus rear rack with integrated backlight
- 10S4P
- Up to 20A
- Min. 500 cycles with 70% remaining capacity
- RoPD (Magnetic) Connectors
- 2 and 5 ampere chargers available



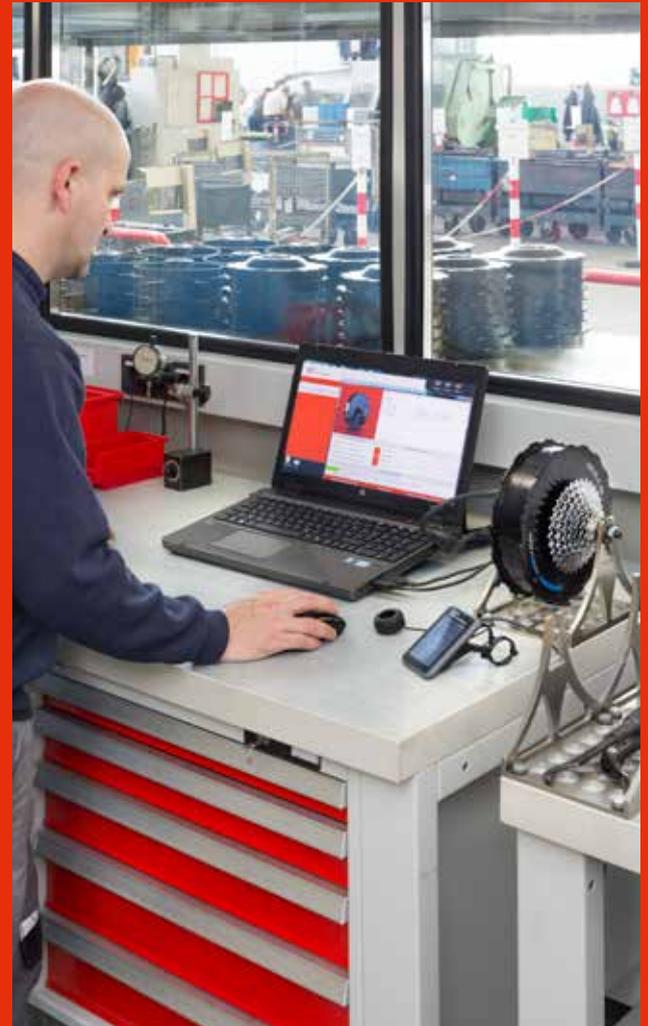
■ SWISS PRECISION WITH ALL THE TRADITIONS OF GERMAN ENGINEERING

Since its establishment in 2011, GO SwissDrive AG, Swiss subsidiary of the globally active German Ortlinghaus Group, has made a name for itself as manufacturer and supplier of premium e-bike drive systems. In its production of rear wheel hub motors and their associated control electronics, GO SwissDrive benefits from more than 100 years' engineering experience in developing high-performing technologies to meet challenging requirements.

■ PROVEN QUALITY AND RAPID SERVICE

With our proven drive system, the recipient of multiple awards, we have for years now been a partner to leading makes of bike and are a market leader when it comes to fast e-bikes / pedelecs. The GO SwissDrive motors are manufactured to state-of-the-art industry standards at our fully automated Swiss production site in Gams. This, plus the use of an automatic end-of-line test, means we can achieve consistent top quality and short delivery lead times.

The European Service Centre at the Ortlinghaus Group's headquarters in Wermelskirchen near Cologne ensures a quick response and maximum proximity to customers. This Service Centre, set up in 2013, allows us to offer very short response times outside Switzerland as well. We quickly resolve any problems at software level through our online support. Replacement systems and spare parts can be ordered direct from manufacturers and dealers as needed. Repairs are performed to clearly specified deadlines and at fixed prices.





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