

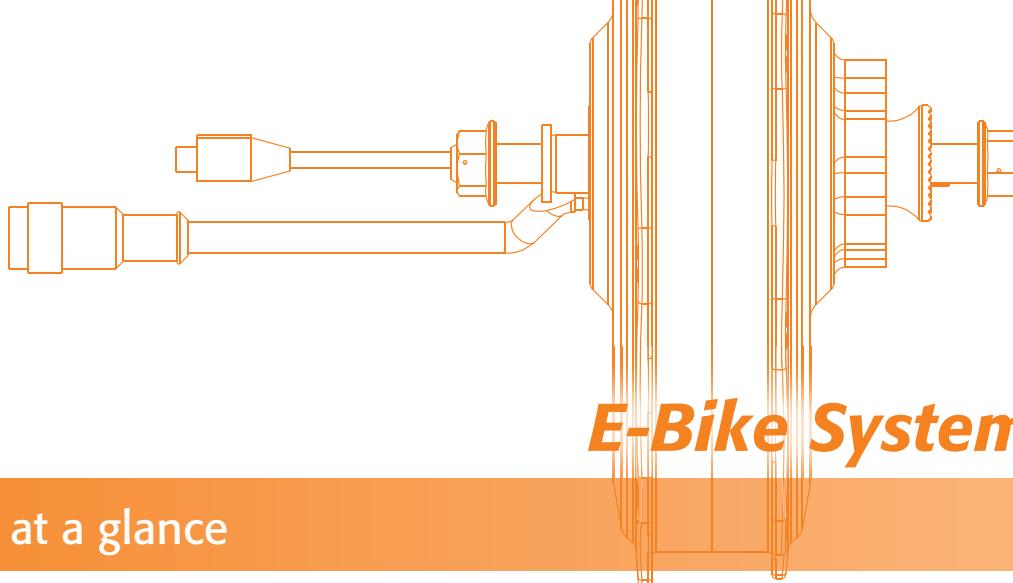


E-Bike Systems

Superior technology from the e-bike pioneer

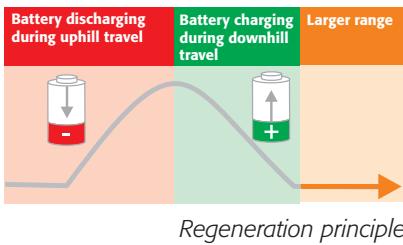






E-Bike Systems

Your benefits at a glance



Range

The regeneration-enabled system can charge the battery during downhill travel and braking. This can achieve an up to 15 % increase in the range.

Flexibility

Whether it's our tried-and-tested, high-performance classic motor, the new innovative DirectPower motor or a model developed to meet customer-specific requirements – at HEINZMANN, we offer the tailored solution for your e-bike model. Our drive can be installed in the front or rear wheel thanks to strict compliance with the standard dimensions used in the bicycle industry. This reduces manufacturing costs and gives our customers the highest possible flexibility in product design. After Sales Service and spare parts planning are therefore made significantly easier.

Diversity

Our modular drive systems offer the highest possible flexibility. This enables us as a partner of bicycle manufacturers and packagers to develop the right customer-specific design for your bicycle motor or e-bike system. A special version with single sided wheel mounting is available on request.

Personality

Put your stamp on our technology. We can adapt the shape and colour of our design to suit your wishes. Whatever colour you would like to combine with your frame models – we offer any colour option. The technical details can also be adapted to create your perfect e-bike.

Use options

The option of turning the drives in both directions opens up a wealth of usage options, including applications outside the e-bike market. The rehabilitation field is just one example.

Service software

The integrated service software has a clear user interface, a built-in wizard for convenient, quick configuration and can be parameterized easily by the OEM/customer. All main system parameters can be parameterized in the field. The software is equipped with a protection system against manipulation of factory settings. The control firmware can be updated in the field. Automatic Internet updates are a matter of course.



HEINZMANN E-Bike Drives: Precision from the Black Forest

HEINZMANN DirectPower – innovation and flexibility

HEINZMANN direct drives from the DirectPower series are characterised by innovative technology and flexibility. These newly developed bicycle motors can be integrated in different systems thanks to the independent control built into the battery box. As front or rear wheel drive, in your colour or design of choice – HEINZMANN E-Bike Motors can be adapted to suit your requirements.



Benefits DirectPower

- ✓ Front/rear wheel drive
- ✓ Regeneration in the front and rear wheel
- ✓ Brake discs can be mounted in the front and rear wheel
- ✓ Gear-free, brush-free, free from wear, free from noise
- ✓ Customer-defined colour of choice
- ✓ Cassette can be used
- ✓ The power electronics is not installed in the motor, so the motor power is not limited as a result of the electronics heating up.
- ✓ Backwards travel is possible for special applications



Our motors can be placed on the front or rear wheel as desired





Basic data DirectPower

- Front/rear wheel drive
- Support up to 25 km/h (Pedelec)
- Rated power 250 W (Pedelec)
- 11 Nm nominal, 60 Nm maximum over short periods (depending on the battery and controller)
- Weight: 4.7 kg (rear wheel), 4.5 kg (front wheel)

HEINZMANN Classic – tried and tested

The HEINZMANN Classic E-bike Drive is characterised by the tried-and-tested robust technology, combined with the innovative optimisation of its components and properties. The powerful DC motor offers even power development with economical use of the battery capacity. Powerful torques are achieved with the built-in gear, which offers the rider maximum support, even during uphill travel or with increased loads. This makes this drive particularly suited to use in the rehabilitation field, cargo bikes and special applications.

Benefits Classic

- ✓ Powerful, tried-and-tested DC wheel hub motor
- ✓ Front/rear wheel drive
- ✓ Gear for highest torques



Basic data Classic

- Support up to 25 km/h
- Rated power 250 W
- Torque up to nominal 11.5 Nm (28"), up to nominal 13.2 Nm (26")
- Weight: approx. 3.5 kg
- Max. values for the torques are 35 to 60 Nm depending on the design (rating plate)



Modular components adapt to your specifications

HEINZMANN E-Bike Systems

Our systems are characterised by their modular design. The motors can be combined with a variety of different components within a building block system. The external control guarantees maximum combination options.



Battery pack

The technically and visually sophisticated battery is mounted under the luggage carrier and is equipped with a magnetic connection system for quick and easy mounting on the e-bike.



Control

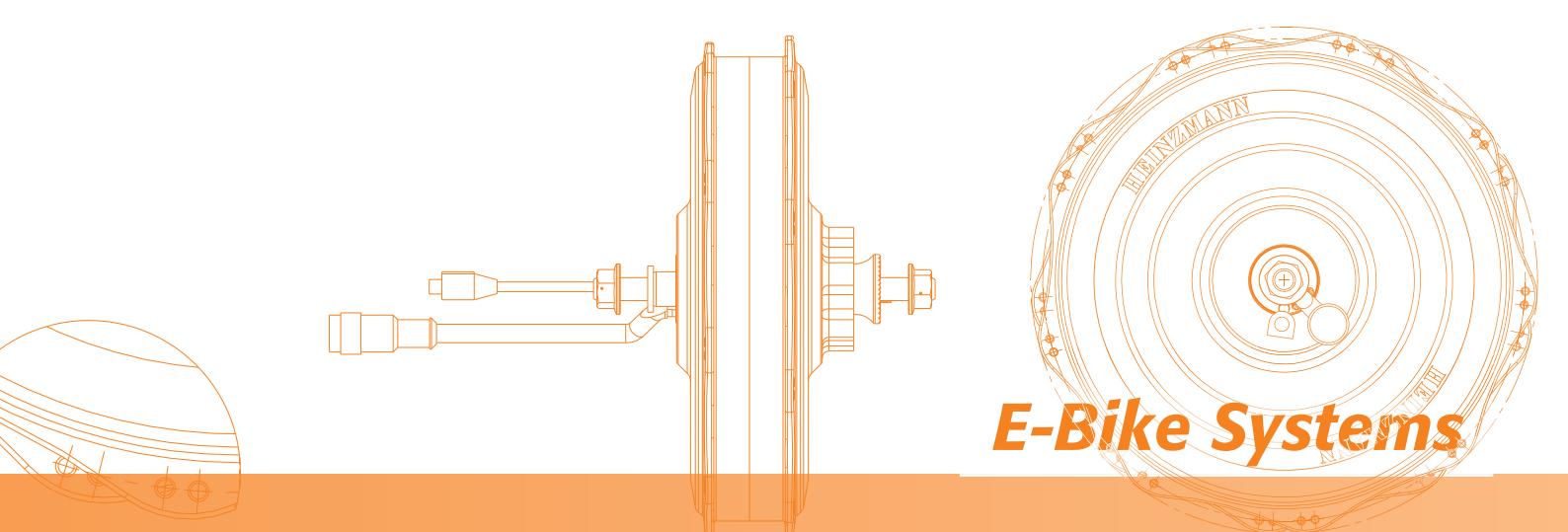
The external control of the HEINZMANN drives is integrated in the battery box and offers maximum selection options with regard to components and systems.



Motor

Technology and design without compromise.



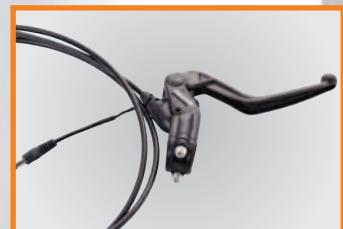


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Display

Intelligent LCD display with LED backlight.



Brake sensors

The sensors required for regeneration are installed in the brakes.



Torque sensor

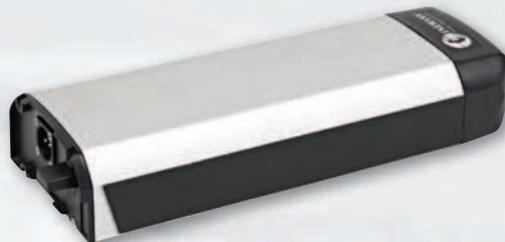
The system is pre-programmed for a range of torque sensors.



HEINZMANN modular system components

The new Modular System Components

HEINZMANN has adapted a selection of system components specially for the new DirectPower drive. Of course, it can also be combined with the HEINZMANN Classic Motor.



Control

- Drive control in the battery pack
- Can be used for DirectPower and Classic motor
- Pre-programmed for various torque sensors currently available
- Various parameters can be adapted by the customer to set an individual driving style (support levels, assisted pull-away and many more)
- Bluetooth optional
- Two control options: Twist grip with pedal speed sensor or torque pedaling power control
- Optimal monitoring of the electrical system
- Integrated safety routines
- Software can be updated via an interface

Battery pack

- Available in three capacity variants (6.6 Ah, 8.8 Ah and 11 Ah)
- Safe, tried-and-tested lithium-ion technology
- 36 V
- Active cell balancing increases the service life of the battery pack
- Technically, mechanically and visually sophisticated
- Magnetic plug connections for quick mounting of the battery
- Water-tight and robust
- Shock and vibration resistant
- Perfectly integrated in the luggage carrier



Torque sensor

- The system is pre-programmed and tested for a range of torque sensors.
- Additional adaptations can be made for the torque sensor of your choice where necessary.



E-Bike Systems



Brake sensors

The sensors required for regeneration are installed in the brakes.



Display

Separate control unit on the handlebar for safe operation while travelling

Clear display of the key operating data

Quick setting of support levels

Simple switching on of the assisted pull-away

Bicycle anti-theft protection through user-specific PIN

Easy to read, even in bright conditions



Luggage carrier

The universal e-bike carrier from aluminium tube.

Aluminium tube 10 mm weight 1000 g

Outstanding weight/stability ratio and lateral rigidity

Corrosion resistant

Various adaptation options through the built-in quick-snap system

With LineTec lighting from Busch & Müller

Service software

Clear user interface

Quick troubleshooting in the event of faults

Built-in wizard for convenient quick configuration

Parameters can be set easily by the customer/OEM

All major system parameters can be configured in the field

Protection system against plant data manipulation

Control firmware can be updated in the field

Automatic Internet updates for service software



HEINZMANN: 115 years of quality made in Germany

Quality

Our electric drives are developed and produced in Schönau/Germany and are real precision products from the Black Forest. HEINZMANN products made in Germany stand for quality and German engineering skill. We would be happy to demonstrate our quality demands to you in person.

Trust

115 years HEINZMANN and decades of experience in the field of e-bike drives make us a reliable partner. The reliability of HEINZMANN drives is also highly valued by Deutsche Post and is fitted on their electric bicycles.

Safety and experience

Back when nobody thought that e-bikes would take off, HEINZMANN had already begun developing high-quality drives for electric bicycles. During this process, the company benefited from longstanding experience with electric drives for industrial applications in different sectors. These decades of experience make us a true specialist for e-bike drives.

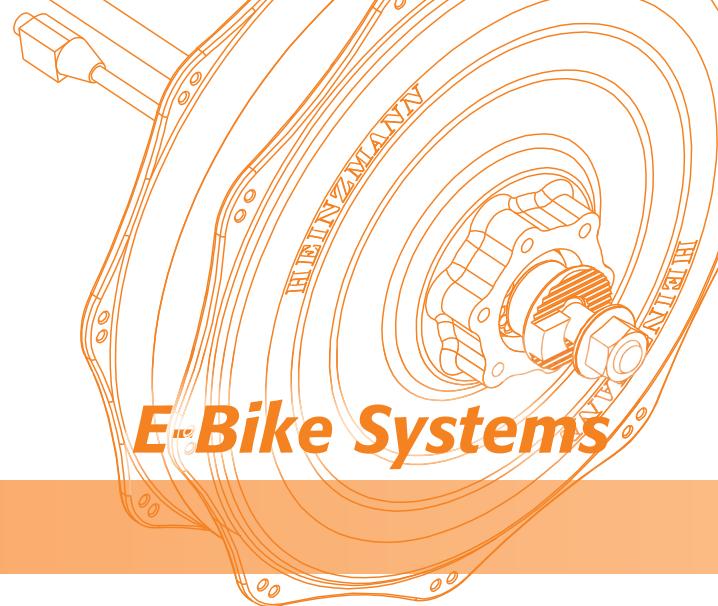
Dealer network

Our worldwide dealer network guarantees reliable service. A HEINZMANN partner is always close by.

HEINZMANN moves

Electric boats, street bikes or enduro, scooter and electric cars: electric drives from HEINZMANN have helped many products make the jump into the electric age. Innovation leaders such as Peugeot, BRAMMO and KTM value HEINZMANN as a reliable partner. HEINZMANN provides the right power from the bicycle to the roadster!





A strong team for your success

Passion

We are a creative team with a passion for bicycles. Our different experience backgrounds compliment each other perfectly. With our know-how, the dedication of our technical developers and their creative ideas for drive sets for electric bicycles, we are setting new standards in technology and design.



The HEINZMANN E-Bike Team

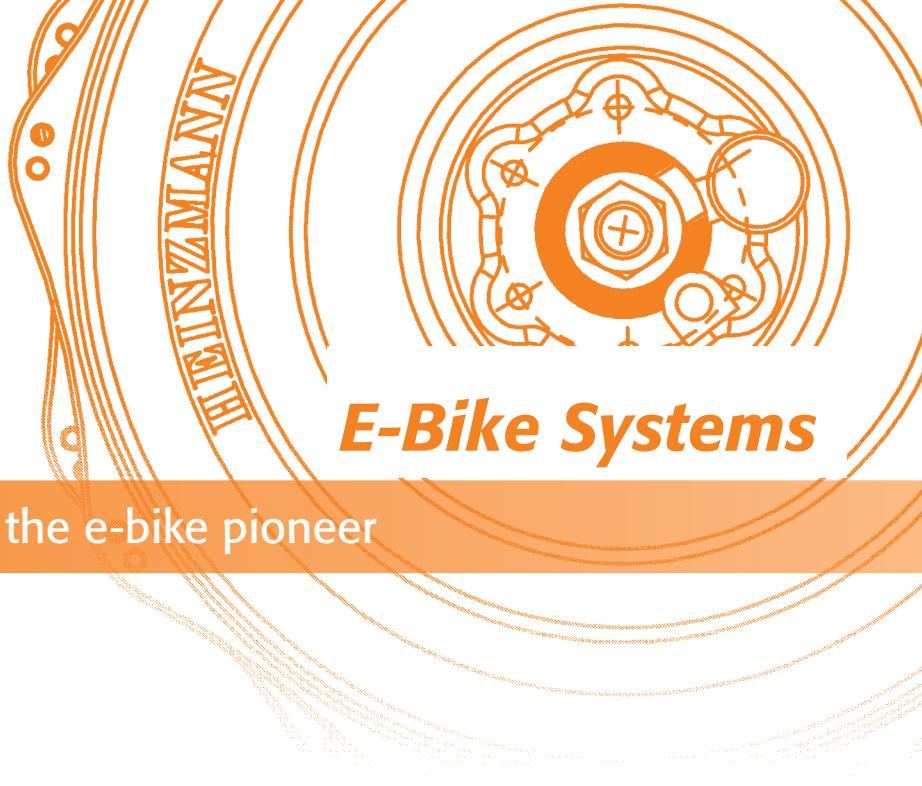
Diversity

We see ourselves as a partner for bicycle manufacturers and packagers and look forward to working with you to develop the right customer-specific design for your bicycle motor.

Security

Working in a company with a strong tradition provides security. Both we and our customers benefit from our company's longstanding experience in the field of electric motors. HEINZMANN offers a company history spanning over a hundred years and a worldwide service and sales organisation which form the basis for innovation and quality.





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