

Press Release

4th-7th Sep 2019 / Eurobike 2019

innotorq Natural Drive for the world's first high-performance pedelec under 10 kg

The smallest and lightest pedelec drive train system on the market for the new Natural Drive pedelec riding experience

innotorq GmbH based in Martinsried near Munich, Germany, will present its new intelligent drive train components and solutions for pedelecs at the Eurobike 2019. The latter can hardly be distinguished from normal bicycles in terms of handling, weight and design - with the difference of full pedelec support. Reason why are innotorq's patented motor control technologies that create a unique Natural Drive riding experience: The bicycle feeling we all know, multiplied by the fun of eBike mobility.

The new unique components for drive train intelligence enable pedelec and motor manufacturers to develop eBikes for new categories and applications, all of them with the innotorq Natural Drive riding experience.

Built on the successful, globally patented sensor for exact pedaling force measurement in real-time, innotorq completes the Natural Drive drive train with

- the high-performance controller system, using real-time information from the sensor to control the optimal response of the motor,
- the lightest (1.9 kg) and smallest motor in its class,
- the intelligent wireless display with extended options for the bikers to control the drive train.

In addition to the first high-performance pedelec under 10 kg, innotorq will present the following applications

- the drive train system of only 3.3 kg, electrifying new pedelec categories like youth bikes or racing bikes,
- the trainer system, which, for the first time, allows exact training profiles for defined distances and training programs by accurately measuring the pedaling force and controlling the resistance motor (replacing currently used flywheels),
- the rehab system, whose accurate control intelligence continuously matches defined physical rehabilitation programs with the patient's performance and physiological data by controlling the pedelec or trainer motor accordingly.

At the innotorq booth in hall A1 - 400, a number of companies will be demonstrating how the innotorq drive train system can be turned into Natural Drive:

- the 10 kg pedelec from ridetronic - ultra-light, highly efficient
- trainer system for professional bikers and ambitious athletes
- HeartGo rehab system: therapeutically adjustable motor control
- Geos Light trekking eBike: drive train with only 3.3 kg weight, performance peaks of up to 800 watt
- kids' eBike from Pyrobike: light, easy to handle, age-based.



Figure 1: Natural Drive with innotorq



Figure 2: innotorq motor & sensor drive train system

innotorq

About us:

innotorq stands for translating the known bicycle experience into the world of eBike mobility - thus creating a 'Natural Drive' riding experience.

innotorq GmbH has its head office in the high-tech cluster Martinsried near Munich in Germany. The company unites 100 years' experience in bicycle and alternative drive train technologies with its passion for bicycles and e-mobility. For production and distribution, innotorq works together with blue chip partners worldwide, thus ensuring the highest quality standards.

innotorq's innovations, pioneering spirit and engineering creativity are geared towards perfecting performance in the field of rear-wheel drives. It is the only way to achieve bicycle designs, weight and handling that are familiar from conventional bikes.

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