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maxon launches light and invisible e-bike system

First, maxon's drives flew on Mars in the NASA helicopter - now they're letting bike riders lift off. After several years of development, the company presents the BIKEDRIVE Air – a light and invisible e-bike system consisting of a mid-mounted motor, integrated battery, and control element. It can be used to build extremely lightweight racing, gravel, urban, and mountain bikes. The first bicycles made by maxon customers will be introduced to the market this year.

E-bikes are conquering cities, rural areas, and mountains. Many existing systems provide powerful support but are heavy and sluggish to handle. maxon wants to change this. With the BIKEDRIVE Air, maxon presents an invisible e-bike system that weighs only 3.5 kg (including battery) and can be integrated into elegant frames by bike manufacturers. The system is so compact that it fits into a wide variety of frame designs – such as racing, gravel, urban, kids', and mountain bikes. It is possible to build electric racing bikes that weigh less than 11 kg, and E-MTB trail full-sussers with less than 16 kg.

The BIKEDRIVE Air system represents 60 years of experience in the development and production of electric motors, gearheads, and electronics. Its centerpiece is a mid-mounted e-bike motor that provides riders with a natural cycling experience and agile handling. The secret behind this is the unique freewheel technology. Support is given only when it is necessary – which makes it feel like riding with a tailwind.

Double the range with an additional battery

This e-bike drive is almost completely hidden from the eye. Only an inconspicuously integrated control element on the top tube hints at the extra power hidden in the bike. Even the associated 250 Wh battery is elegantly hidden in the down tube. If desired, the range can be doubled with an additional battery. Riders have the option of individually adjusting the support levels provided by their e-bikes and easily access-ing important data at any time. To this end, maxon developed the maxon Connect app. With ANT+ or Bluetooth (BLE), other devices such as: Garmin, Sigma, o-synce, can also be connected easily. For dealers, there is a user-friendly Service app.

Starting this summer, maxon will be offering the BIKEDRIVE Air system exclusively to bike manufacturers all over the world and is available for consultation. First partners are already integrating the drive into their new bike product lines and will launch it on the market later this year.

For more information, visit: www.maxonbikedrive.com.

For additional information, please contact us at info.us@maxongroup.com or 508-677-0520.



Integrated out of sight: This e-bike system by maxon is almost completely hidden from the eye © maxon



Ralph Näf, former MTB pro and team manager, tests the BIKEDRIVE Air © maxon

The Swiss specialist for quality drives

maxon is a developer and manufacturer of brushed and brushless DC motors, as well as gearheads, encoders, controllers, and entire mechatronic systems. maxon drives are used wherever the requirements are particularly high: in NASA's Mars rovers, in surgical power tools, in humanoid robots, and in precision industrial applications, for example. To maintain its leadership in this demanding market, the company invests a considerable share of its annual revenue in research and development. Worldwide, maxon has more than 3000 employees at nine production sites and is represented by sales companies in more than 30 countries.