

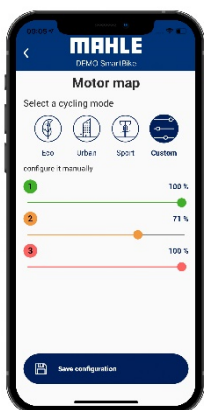
Press release

Stuttgart/Germany, November 25, 2021

MAHLE makes e-bikes even smarter

- MAHLE SmartBike Systems presents new app concept
- Tailor-made apps for e-bike users, dealerships, and manufacturers
- Additional functions with PC interface
- Available from November

MAHLE SmartBike Systems has added new apps to its connective drive concept. The e-bike business of the Stuttgart automotive supplier is looking to address the specific needs of all user groups. There will be tailor-made apps for each of these groups: “MySmartBike” for bikers, “SmartBike Lab” for dealerships, and “Production” for e-bike manufacturers. The customer and dealership applications will be available from the App Store and Google Play Store for iOS and Android, while manufacturers can get the app from their sales contact. All three apps can also be used on a desktop PC, where the user interface appears as a dashboard and includes additional functions.



Bikers, dealerships, and manufacturers benefit from three new MAHLE apps

“Connectivity is one of the key strengths of our drive concept for e-bikes. The new apps will allow us to make many digital services more customizable and user-friendly and to expand them to meet future needs,” says Dr. Armin Messerer, Vice President Mechatronics at MAHLE and responsible for the e-bike business segment.

The MySmartBike app for bikers raises the interaction between bike and rider to a new level. It provides charge status monitoring and other information about the bike in real time. It can also record training cycles and routes and lets the rider optimize training programs by recording displaying, and analyzing various parameters, including gradient, heart rate, and measured times. The boost level from the motor can be

regulated based on the biker's heart rate. If the heart rate exceeds the recommended range, then the motor output is increased.

The SmartBike Lab app lets dealerships optimize their after-sales services, with fast and customer-oriented diagnostics, setup, and training of new components. The Production app helps manufacturers to trace the path of the smart bike from shipment to the dealership to the initial ride by the end user. All three apps offer advanced functions via the respective web dashboard. Information such as health data, topography of routes traveled, or trip information can be retrieved and connected to third-party services such as STRAVA™, a social network for tracking athletic activities.

As a holistic systems provider for smart e-bikes, MAHLE provides a platform for compact drive motors with customized motor control, power-adapted battery, and connective components with sensor technology and data interfaces. The lightweight and compact design of the components gives bike manufacturers unprecedented design freedom. MAHLE Smart Bike Systems can be integrated almost invisibly into the bike frame. Rather than follow the trend toward maximum power output, MAHLE takes a user-oriented approach. This makes the system not only more streamlined but also significantly lighter. Including the battery, the total weight of the MAHLE X35+ drive system is just 3.5 kilograms. The MAHLE e-bike solution is therefore perfectly suited to sports and leisure applications as well as everyday mobility.

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About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry. The technology group is now broadly positioned in the areas of powertrain technology and thermal management with a clear focus on future topics relating to mobility. As part of its dual strategy, MAHLE is working both on the intelligent combustion engine for the use of hydrogen and other nonfossil fuels and on technologies that will help the fuel cell and e-mobility achieve broad acceptance in the markets. The product portfolio of the company, which was founded in 1920, addresses all the crucial aspects of the powertrain and air conditioning technology. Half of all vehicles in the world now contain MAHLE components. #weshapefuturemobility

In 2020, MAHLE generated sales of approximately EUR 9.8 billion and is represented in over 30 countries with more than 72,000 employees in 160 production locations and 12 major research and development centers. (Last revised: 2020-12-31)