

Press release

Palencia/Spain, June 13, 2024

MAHLE SmartBike Systems launches its new System X30

- MAHLE sets new standards in hub motors for lightweight eBike systems
- New motor delivers 45 Nm of torque and weighs only 1.9 kg
- System is robust and versatile
- The X30 System is compatible with all components, accessories, and digital ecosystem of the new X Series family

MAHLE SmartBike Systems, the eBike company of automotive component supplier MAHLE, has launched its new X30 drive system for eBikes. The new MAHLE X30 consists of motor, battery, HMI (human machine Interface) and other components and extends the X-Series system platform. The highlight is the new motor. This is a robust and functional unit that maintains the light, sport, and intelligent DNA characteristic of all MAHLE products, offering both balanced and versatile assistance. This new hub motor is designed to provide great performance on any terrain, with a 45 Nm torque (compared to a mid-drive motor) and weighs just 1.9kg. The MAHLE X30 has therefore set a new standard for hub motors and has once again revolutionized the market for lightweight eBike systems. Its highly advanced technology makes it suitable for all riders, whether on the road, in the city or on tracks. It is even suitable for kids eBikes. The new MAHLE X30 is also compatible with all the components, accessories, and digital environment of the MAHLE X20 system, which means that the complete system can be equipped with Pulsar ONE, eShifters, HMI, iX2 or iX3 batteries and External Battery eX1 (e185).

As a leading supplier of lightweight eBike solutions with many years of development experience, MAHLE SmartBike Systems is committed to development and innovation. With MAHLE X30, the company has launched a versatile, robust, functional and technologically advanced system that will markedly change the world of lightweight eBike systems.

MAHLE X30 System combines lightweight innovation with robust versatility, providing individual support for diverse riding conditions and significantly improving the riding experience.

New motor, same ecosystem:

MAHLE X30 System can be integrated perfectly with the X20 components and existing digital ecosystems, guaranteeing uncompromising compatibility. This compatibility enables seamless upgrades and access to advanced features, maintaining consistent performance across the X Series.

The design of this rear hub motor allows for perfect system synergy as a result of lower energy losses, increasing energy efficiency by 15% compared with a mid-drive motor, allowing the user's activity to be extended in an environmentally friendly way up to a distance of almost 190 km.

In addition, the versatility provided by the X Series platform allows bicycle brands to build eBikes with a pedal assist sensor or with a cadence and torque sensor, creating different riding experiences.

One of the innovations of this system is that the installation of the torque sensor allows for a much more precise watt analysis, enabling the motor to respond to the rider's needs at all times. Also, our technology together with AI and machine learning means that the eBike learns from the rider's behavior and adapts to both riders and their environment.

The MAHLE X30 System is customized according to the DNA of the bike brand that implements it on its models, as well as by discipline and, customer philosophy. The motor mapping is defined together with the manufacturer concerned and implemented on the eBikes at the end of the production line. This leads into a special bike and riding experience on each different brand, behaving differently even when using the same system.

The launch of the new MAHLE X30 System is associated with renown partners in the bike industry such as Bianchi in road, Husqvarna and Stevens, among others.

For more information:

Website MAHLE X30: <https://mahle-smartbike.com/X30>

MAHLE SmartBike Systems website: <https://mahle-smartbike.com/es/>

Note: Press release available at: <https://newsroom.mahle.com/press/en/>

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New X30 motor



MAHLE X30 System: accessories and components



X30 System eBike integration



X30 System integrated into gravel bike



X30 System integrated into urban bike



X30 System integrated into road bike



X30 System integrated into kid bike

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About MAHLE SmartBike Systems

The company MAHLE SmartBike Systems is the specialist division for the design and development of drive systems for eBikes as part of the German MAHLE group, an international leader in sustainable mobility solutions for both present and future.

The more than 150-person-strong team is made up of software and hardware engineers, industrial and electronic engineers, quality specialists, 3D designers, creatives, production and materials experts, and a long list of professionals in addition to a further 80 people across the group's different centers in Spain, Germany, and Asia.

With the headquarters of this major project located in Palencia, MAHLE SmartBike Systems brings together MAHLE's R&D, Marketing, Operations and Sales activities within the eBike sector.

The ultralight and compact MAHLE systems are comprised of the motor, batteries, controllers, components, and all types of intelligent solutions for eBikes and are integrated and perfectly interconnected with each other in order to offer cyclists a completely personalized experience. Thanks to all these characteristics, more than 80 brands around the world, including those that as a result of their innovation are revolutionizing the cycling industry, incorporate MAHLE drive systems as the perfect choice in terms of integration, cost, and efficiency for electric mobility.

#ePoweredByMAHLE

About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry with customers in both passenger car and commercial vehicle sectors. Founded in 1920, the technology group is working on the climate-neutral mobility of tomorrow, with a focus on the strategic areas of electrification and thermal management as well as further technologies to reduce CO2 emissions, such as fuel cells or highly efficient, clean combustion engines that also run on renewable fuels, such as hydrogen. Today, one in every two vehicles globally is equipped with MAHLE components.

MAHLE generated sales of almost 13 billion euro in 2023. The company is represented with more than 72,000 employees at 148 production locations and 11 technology centers in 29 countries. (as of 31.12.2023)

#weshapefuturemobility