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Safer in the Saddle: ZF Tilt Lock Added to Volume Production of Three-Wheelers

- **The ZF Tilt Lock makes getting on and off easier**
- **Volume production of three-wheeled Maxiscooters from an international motorcycle manufacturer begins**

Friedrichshafen/Milan. The ZF Tilt Lock will enter volume production with one of the world's leading manufacturers of motorcycles. The electromechanical Tilt Lock is part of the standard equipment of a new, three-wheeled Maxiscooter. For the drivers of these three-wheeled scooters, the system increases comfort and safety levels when getting on and off as well as during a standstill at traffic lights or in traffic.

Busy roads, few parking spaces: For many city dwellers a car would not be the first-choice of transport for traveling quickly and flexibly through urban environments. This is where "Tilting Three-Wheelers" come into their own. These three-wheeled motorbikes, which can be driven with a standard car driver's license, have established a solid position in this niche market. Requiring only a normal driving license rather than a specific motorbike license has removed the restriction which stops many people from riding conventional motorbikes. "Three-wheelers are compact and flexible, and also generate fewer emissions than many other modes of transport," explains Rainer Kirchner, Head of the Chassis product segment at ZF Race Engineering. "For these reasons, the market is growing – particularly among young people in Italy, Spain, and France."

However, people utilizing this type of vehicle must not be neglected when it comes to comfort and safety. A major international motorcycle manufacturer is therefore equipping its latest three-wheel model with the electromechanical Tilt Lock from ZF as standard. "With the Tilt Lock, the three-wheeler can be stopped, locked in an inclined position, making it easier to get on and off the bike when parked – particularly for shorter people. Also, when the bike is stationary in traffic or at red



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traffic lights, drivers do not need to support these vehicles with their feet to stop them from falling over," says Kirchner. This can lower stress levels experienced by drivers when dealing with the chaos of city center driving. Even in particularly critical situations, such as stopping on a steep or sloping curve in the road, the Tilt Lock helps to increase stability and safety.

The Tilt Lock can be easily activated and deactivated via a switch on the handlebars, bringing the three-wheeler to a tilted position within a second of reaching a stop. The ZF Tilt Lock system is faster, more compact, and around two-thirds lighter than comparable components currently on the market. This can increase driving dynamics and help to reduce fuel consumption at the same time.

ZF technologies for scooters and motorcycles

The Tilt Lock is the first series product to emerge from ZF's business expansion into the motorcycle segment. The technology company offers a broad portfolio of products and development services, ranging from motorized two-wheelers to aftermarket services, and utilizes its synergies to create new, innovative technologies for this segment.

ZF will attend Eicma in Milan from November 5 to 10. You will find us at stand E66 in hall 18.

Caption:

Making it easier to get on and off when parked and increasing stability and safety in urban traffic – the new ZF Tilt Lock for three-wheelers.

Image: ZF

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ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. With its comprehensive technology portfolio, the company offers integrated solutions for established vehicle manufacturers, mobility providers and start-up companies in the fields of transportation and mobility. ZF continually enhances its systems in the areas of digital connectivity and automation in order to allow vehicles to see, think and act.

In 2018, ZF achieved sales of €36.9 billion. The company has a global workforce of 149,000 with approximately 230 locations in 40 countries. ZF invests over six percent of its sales in research and development annually.

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