ZF Launches Series Production for new EV Braking System

- State of the art brake control system will be used across complete model range of Volkswagen’s MEB platform
- Regenerative braking increases range of electric vehicles
- Software interface facilitates feature integration and networking

ZF confirms its position as a technology and system supplier for electromobility with a new series production order. The latest in ZF brake control solutions will be established as standard in Volkswagen’s ID.3 and ID.4 models as well as in Volkswagen Group’s globally marketed modular e-drive system MEB platform. With its new brake control, ZF can help to meet high comfort and safety requirements. Furthermore, it optimizes the recovery of braking energy – increasing the range and everyday usability of electric vehicles.

Volkswagen Group’s order for the new ZF brake control system covers several million vehicles – starting with the recently introduced ID.3 and ID.4 and continuing with future models based on the manufacturer’s MEB e-drive platform MEB.

With an optimized software interface, ZF’s new braking system can be integrated and networked even more easily into the electronic architecture of the vehicles.

The ZF system also supports driver assistance features such as automatic emergency braking. In addition, ZF’s solution replaces previously necessary mechanical components (such as the parking lock) with software functions, which saves both weight and costs.

"We meet the trend toward electromobility with our entire range of technological solutions – not just in driveline technology," says Wolf-Henning Scheider, CEO of ZF Group. "This supply order from
Volkswagen emphasizes how our competencies for braking systems as well as for networked systems contribute to increasing the range of our customers electric vehicles. To this end, our systems help to meet high comfort and safety requirements.*

On a technical level, ZF brake control is based on a combination of the company’s electronic brake booster (EBB) and its electronic stability control (ESC). The system is part of a software network housed in the stability control unit. It helps meet stringent safety standards set by the European road safety association EuroNCAP. New testing protocols for functions such as automatic emergency braking drive the need for more powerful boost to provide braking force even faster and more dynamically.

Caption:  
Picture 1 (1_ZF_PKW_EBB_ESC470):  
ZF's latest brake control system optimizes the recovery of braking energy and can increase the range of electric vehicles. It will be installed in millions of cars based on Volkswagen Group's MEB platform, including the ID.3 and the ID.4 model range.

Picture 2 (2_Wolf-Henning_Scheider):  
Wolf-Henning Scheider, Chairman of the Board of Management of ZF Group, sees considerable advantages in efficiency, safety, and comfort for electric cars in the new ZF brake technology.

Images: 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. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and $3.4 billion (WABCO).

For further press information and photos please visit: www.zf.com