



## Effectively Electrified Thanks to eWorX: ZF Presents All-In-One Solution for Commercial Vehicle PTOs

- **New product family enables emission-free commercial vehicle PTOs**
- **The all-in-one solution supports vehicle and body manufacturers with their transformation to electric vehicles**
- **First prototype already in testing phase**

**Friedrichshafen (Germany). One hundred percent electrification, one hundred percent efficiency: the eWorX product family enables commercial vehicle Power Take-Offs (PTOs) that are locally emission-free. Both vehicle and special body manufacturers can benefit. With this complete solution, technology company ZF supports the commercial vehicle sector through its transformation to a more sustainable future.**

When it comes to the electrification of commercial vehicles, the focus will not be solely on the powertrain. In this segment, around fifty percent of vehicles are additionally equipped for use as municipal vehicles, on construction sites, in depots, etc. Currently, specialised vehicles, such as truck cranes, dump trucks or cement mixers require suitably designed PTOs that are coupled to the engine or transmission of the combustion engine drivetrain. However, because the architecture of conventional drivelines differs fundamentally from electric drivelines, familiar interfaces are no longer used, future PTOs need to be redesigned. "This is where ZF, with its expertise as a systems supplier, can really support the industry towards its way to electrification," explains Kleber Vinhas, who has responsibility for the CV Powertrain Modules product line in ZF's Commercial Vehicle Technology Division. "With eWorX, we have simplified the integration of equipment into new platforms and are providing the market with a new standard interface for the operation of work bodies. This is a smart solution that takes us one step closer to zero emissions. With this solution, we support vehicle and body manufacturers in optimally mastering the complex challenge of electrification."



**PRESSE-INFORMATION**  
**PRESS RELEASE**

Seite 2/3, 2021-10-11

**All-in-one, simple integration**

The newly developed product family offers an innovative all-in-one solution to efficiently electrify PTOs for operating work equipment – regardless of the architecture used for the drive. The advantages are locally emission-free operation with significantly reduced noise, facilitating their use in cities and residential areas in particular.

The core of the system is the ZF eCubE which provides the link between the vehicle battery and the modular electric ZF ePTO which in turn drives the equipment. The eCubE contains suitable power electronics, a control unit and software packages tailored to the particular application. Seamless connection to the vehicle CAN bus integrates eWorX solutions to the vehicle's battery and energy management systems. New safety and assistance functions are also possible – as is the option to control the machines via smartphone or tablet from outside of the cab.

**Test vehicle with customer interest from the start**

ZF has built an experimental electrified, remote-controllable dump truck which can also operate independently of the tractor. The prototype is currently undergoing an intensive test phase in real world conditions at ZF's Schweinfurt location. In cooperation with various body manufacturers, further vehicles featuring solutions for electric auxiliary drives are already under construction. Extensive real-world testing of these prototypes will also be carried out by the manufacturers involved.

The first customers have already signaled their interest in eWorX.

Caption:

Full electrification for commercial vehicle PTOs: ZF's eWorX product family offers vehicle manufacturers and body manufacturers an all-in-one solution for the transformation to zero local emissions.

Image: ZF



**PRESSE-INFORMATION**  
**PRESS RELEASE**

Seite 3/3, 2021-10-11

Press contact:

**Frank Discher**, Commercial Vehicle Technology, Fleet Management  
Solutions and Electromobility,  
Phone: + 49,7541,77-960770, e-mail: [frank.discher@zf.com](mailto:frank.discher@zf.com)

**About ZF**

ZF is a global technology company supplying 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 of Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive product and software solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

In fiscal year 2020 ZF reported sales of €32.6 billion. The company employs more than 150,000 associates at approximately 270 locations in 42 countries.

For further press information and photos, please visit: [www.zf.com](http://www.zf.com)