



Electric central drive for public transportation: ZF CeTrax goes into production

- **Series production of the electric central drive CeTrax to start in the third quarter of 2020**
- **Bus manufacturer Solaris installs CeTrax for the first time in Urbino 15 LE electric**
- **E-mobility solutions by ZF support future-proof and emission-free local transport**

Friedrichshafen. In order to make the conversion to local emission-free public transport as easy and flexible as possible, ZF supports commercial vehicle manufacturers with its broad technology expertise and system competence. Various manufacturers worldwide already rely on the AxTrax AVE portal axle as an electric drive for buses in public transport. Starting in the third quarter of 2020, the CeTrax electric central drive will be the second electric drive from ZF for public transport to go into volume production. The drive will be manufactured in Friedrichshafen.

"The start of series production of the electric central drive for buses illustrates the pioneering position ZF is taking in electrification. CeTrax is another building block on the way to emission-free public transport, which ZF supports to best of its ability", says Dr. Andreas Grossl, responsible for Axle and Transmission Systems for Buses and Coaches at ZF. "Winning over bus manufacturers with a market entry electric drive shows that we are on the right track with our strategy".

CeTrax: flexible and powerful

ZF designed CeTrax for use in buses and presented it to the public for the first time in a ZF test vehicle in 2017. The design of the drive is based on a plug-and-drive approach. CeTrax can be easily installed in vehicles with a conventional driveline layout. Moreover, CeTrax, like ZF's other electric drives, can be operated via battery, trolley system or



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supercaps, and also in a fuel cell configuration. It is thus suitable for the development of new vehicles as well as for retrofitting of existing platforms. This allows vehicle manufacturers and fleet operators to respond flexibly to market requirements and legal regulations. Convinced of the numerous product advantages, the Polish bus manufacturer Solaris has now decided in favour of CeTrax. In future, CeTrax will power the new Urbino 15 LE electric model. Further customer launches are in preparation.

Emission-free across the city

Tighter emission limits and the public debate on fine dust pollution are not only putting pressure on car manufacturers. Local public transportation in particular is under an obligation to reduce emissions and thus ease the burden on the environment. As the world's leading technology group and a long-standing partner of the commercial vehicle industry, ZF supports manufacturers in this conversion with its technological expertise.

Captions:

1. Ready for series production: The CeTrax electric central drive for commercial vehicles can be integrated into an existing vehicle platform with little effort.
2. Proven in series production: The AxTrax AVE electric portal axle for low-floor buses.

Pictures: 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 2019, ZF achieved sales of €36.5 billion. The company has a global workforce of 148,000 with approximately 240 locations in 41 countries. ZF invested seven percent of its sales in research and development.

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