



CeTrax 2 dual

Electric Central Drive

Integrated and modular e-powertrain designed
for heavy-duty commercial vehicles



ZF's Latest Innovation in Electric Driveline Technology

Specifically designed for heavy-duty commercial vehicles, CeTrax 2 dual seamlessly packages within the space of the transmission of an ICE vehicle enabling OEMs to offer ICE and electric drivelines on a single vehicle platform. Integrating in-house developed components, this innovative one box solution enables compact size and light weight, while providing high power and torque with enhanced efficiency. Thus, CeTrax 2 dual helps to accelerate the electrification of commercial vehicles.

Value to Customers

- Delivers premium, reliable performance with powerful acceleration and optimized energy efficiency supporting demanding CV requirements
- Incorporates high electrical efficiency, enables smaller size, minimized external electrical connections
- Extends battery duration and vehicle operational range
- Provides seamless torque delivery for optimal power distribution and comfortable driving experience
- Offers high-speed processing for advanced software functionality, while fulfilling regulatory cyber security requirements and functional safety
- Ready for integration with other vehicle systems such as braking system, ADAS or automated driving systems
- Enables zero emissions for battery electric and fuel cell vehicles
- Optimizes driving experience with quiet and smooth electric powertrain operation

The ZF Difference

- Integrated one-box-solution enables simplified application facilitating quicker vehicle platform electrification
- Provides optimized performance and efficiency due to inhouse development of key components and software as part of a seamless platform approach
- Benefits from ZF's expertise in developing e-mobility and transmission solutions for a broad range of vehicles spanning from passenger cars up to heavy-duty trucks and buses



Technical Features

- Equipped with 2 hairpin electric motors delivering 380 kW continuous power and peak system output torque 24700 Nm
- Includes 2 integrated 800 Volt silicon carbide (SiC) inverters
- Features a 3-speed transmission with 2 e-actuators for optimized e-powertrain efficiency
- Integrates state-of-the-art powershifting strategy
- Incorporated high-performance ECU
- Comes with smart CAN interface for bi-directional communication

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About Us

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. With some 165,000 employees worldwide, ZF reported sales of €43.8 billion in fiscal 2022. The company operates 168 production locations in 32 countries.

ZF's Commercial Vehicle Solutions (CVS) division is helping shape the future of commercial transportation ecosystems. Our mission is to be the preferred global technology partner to the commercial vehicle industry. Powerfully combining ZF's commercial vehicle systems expertise, extensive technology portfolio and global operations, the division serves the full commercial vehicle industry value chain. As the automotive industry progresses towards an increasingly autonomous, connected, and electrified (ACE) future, ZF's CVS division innovates, integrates, and supplies components and advanced control systems that help make commercial vehicles and fleets operate more safely and sustainably. CVS unites ZF's former Commercial Vehicle Technology and Commercial Vehicle Control Systems divisions, the latter being formed following ZF's acquisition of WABCO in Spring 2020.