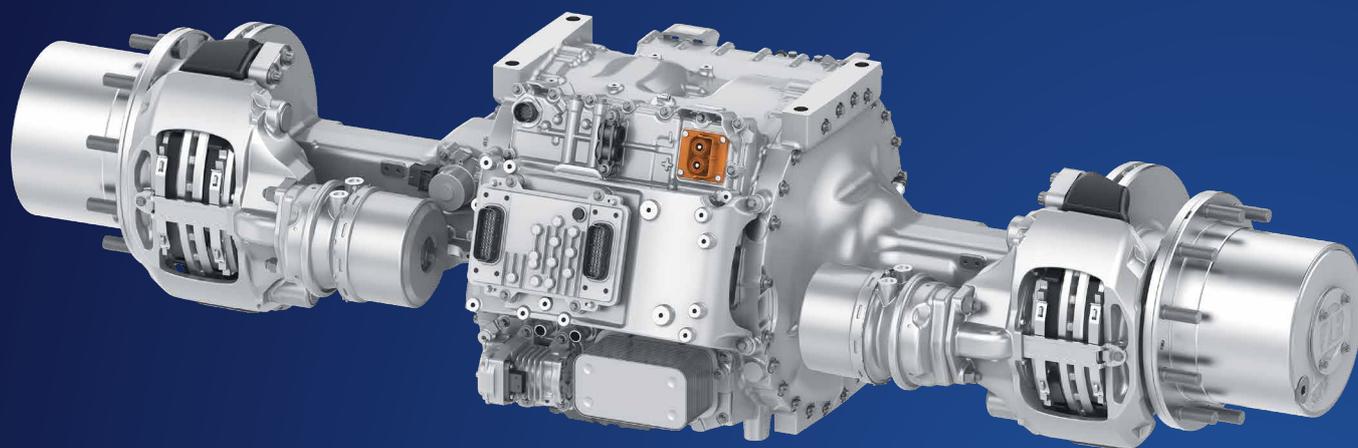


AxTrax 2 dual

Electric Axle

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

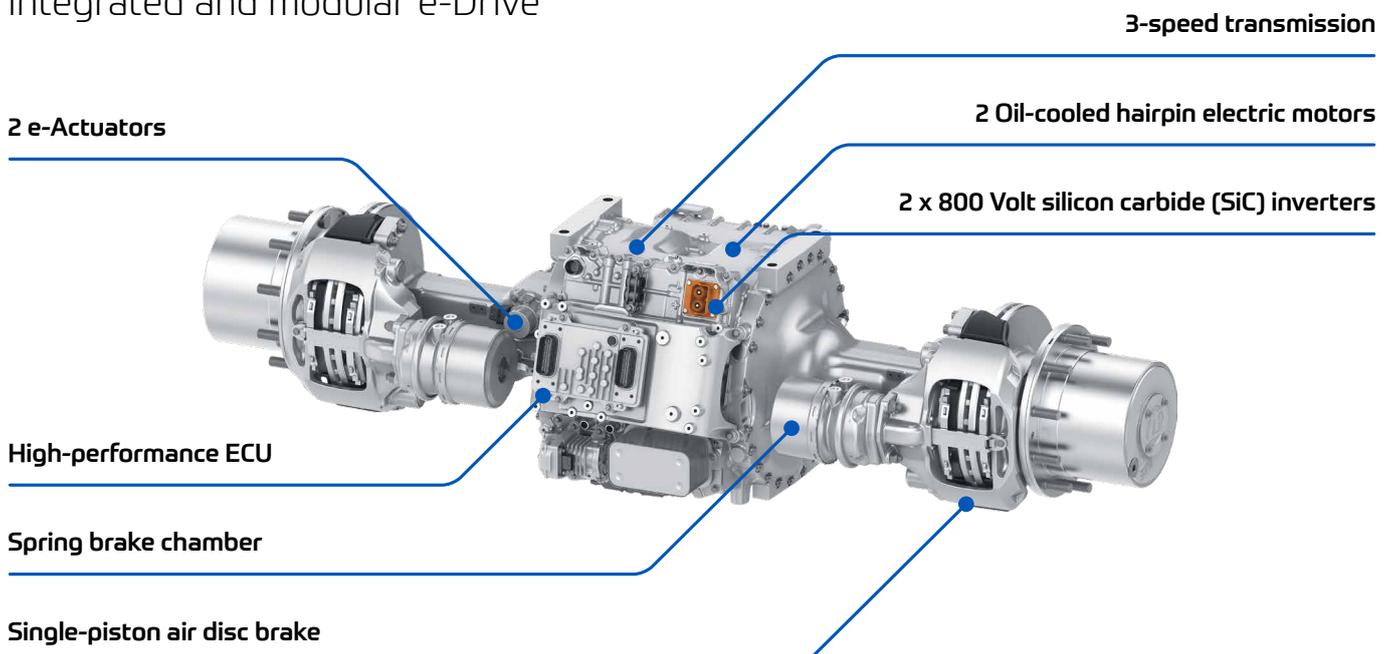


ZF's Next-Generation Electric Axle for Heavy-Duty Commercial Vehicles

AxTrax 2 dual is designed to replace the engine, transmission, and conventional axle to electrify a commercial vehicle. Integrating in-house developed components as part of the modular platform approach, AxTrax 2 dual's unified axle-based design, compact size, and light weight provide high power and torque at enhanced efficiency in a single package. Furthermore, the minimized space requirements enable OEMs to reimagine the design of commercial vehicle platforms.

AxTrax 2 dual

Integrated and modular e-Drive



Value to Customers

- Maximizes available space for batteries, enhances vehicle architecture design flexibility enabling future vehicle concepts
- 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
- Helps to extend 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
- Enables compliance with other vehicle systems such as braking system, ADAS or automated driving systems
- Enables local zero emissions for battery electric and fuel cell vehicles
- Supports operation in urban environment and optimizes driving experience with quiet and smooth electric powertrain operation
- Delivering harmonized in-house wheel-end brake solution for ease of integration of AxTrax 2 dual into vehicle applications

Technical Features

- Packages fully electric powertrain within the axle envelope
- Equipped with 2 hairpin electric motors delivering 380 kW continuous power and peak system output torque 54,800 Nm
- Software enabled variable power blending optimizes e-motor usage, performance and efficiency
- Includes 2 integrated 800 Volt silicon carbide (SiC) inverters
- Features a 3-speed transmission with 2 e-actuators for optimized e-powertrain efficiency
- Offers full neutral capability enabling coasting and towing
- Delivered with state-of-the-art powershifting strategy
- Incorporated high-performance ECU
- Comes with smart CAN interface for bi-directional communication
- Easily integrates with ZF air disc brake and actuation solution

The ZF Difference

- Integrated axle one-box-solution enables OEMs to reimagine the vehicle architecture to enhance form and function, improve aerodynamics, or add additional batteries due to available space and weight
- 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, axle, and transmission solutions for a broad range of vehicles spanning from passenger cars up to heavy-duty trucks and buses
- Able to be delivered with full ZF air disc brake and actuation solution (Wheel end solution)

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