

# AxTrax 2

# Electric Axle

Integrated and modular e-drive  
designed for commercial vehicles

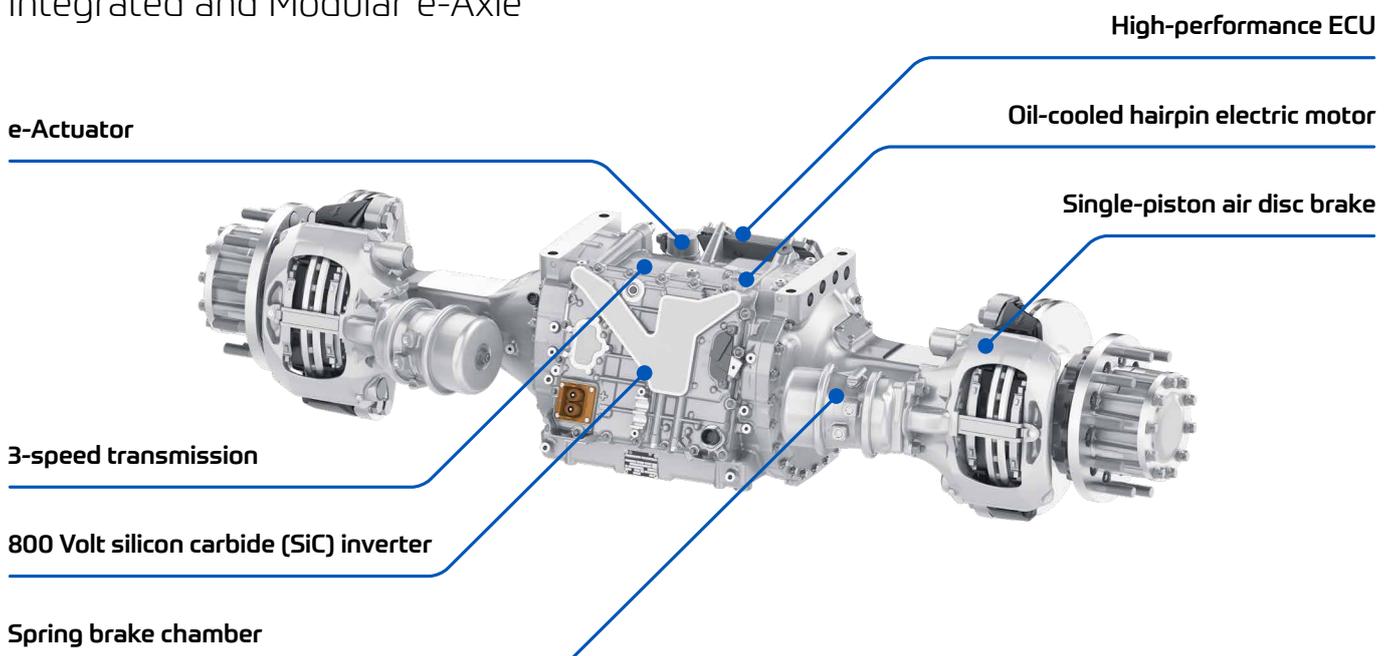


# ZF's Next Generation Electric Axle for Commercial Vehicles

Able to serve a wide range of vehicle applications, AxTrax 2 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'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

Integrated and Modular e-Axle



## 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)

## 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 in 6x4 CV applications 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 into vehicle applications

## Technical Features

- Packages fully electric powertrain within the axle envelope
- Equipped with a hairpin electric motor delivering 210 kW continuous power and peak system output torque 26,000 Nm
- Software enabled variable power blending in 6x4 CV applications optimizes e-motor usage, performance and efficiency
- Includes an integrated 800 Volt silicon carbide (SiC) inverter
- Features a 3-speed transmission with an e-actuator for optimized e-powertrain efficiency
- Offers full neutral capability enabling coasting and towing
- Delivered with state-of-the-art powershifting strategy in a 6x4 CV application
- Incorporated high-performance ECU
- Comes with smart CAN interface for bi-directional communication
- Easily integrates with ZF air disc brake and actuation solution

**For further product details contact your sales representative.**

**For information about our product portfolio, visit: [zf.com/cv](https://zf.com/cv)**

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