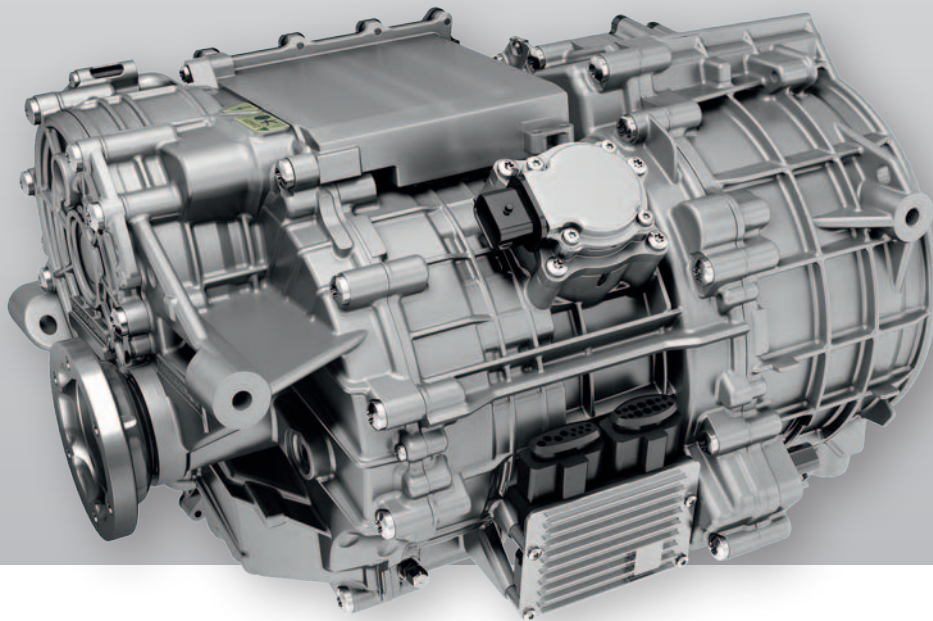


Engine
Chassis
Transmission
E-Mobility

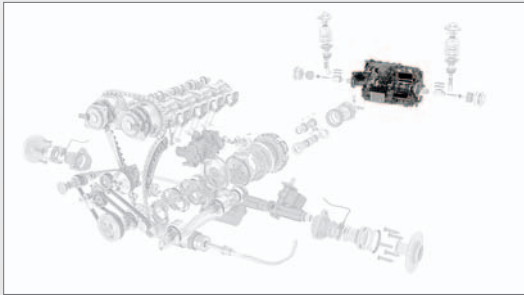
SCHAEFFLER

High-voltage Electric Axle

EFFICIENT FUTURE MOBILITY



3rd Generation High Voltage 2-speed Electric Axle with Torque Vectoring



Traction motor

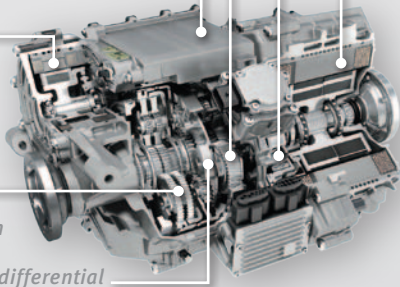
*Transmission with
2 gear stages*

*Torque vectoring power
electronics*

*Torque
vectoring
motor*

*Torque
vectoring
transmission*

Lightweight differential



Description

- 2-speed electric drive with electromechanical torque vectoring (active torque distribution)

Functional advantages

- Coaxial design
- Water-cooled electric motors
- Transmission in planetary design
- Electromechanical torque vectoring

Product benefits

- Coaxial design with optimized design envelope
- Suitable for use in HEV/BEV applications on the front and rear axle
- 1 or 2-speed modular system, with optional torque vectoring
- High power density and high energy efficiency
- High vehicle agility due to torque vectoring and significantly improved driving dynamics and driving safety due to minimum reaction times of electromechanical torque vectoring

Integration/installation

- Integrated power electronics for electromechanical torque vectoring
- Torque vectoring motor arranged parallel to axle