



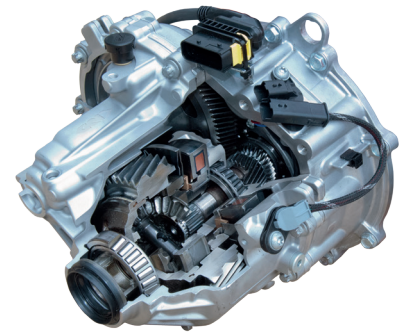
eDrive
Systems

Semi-integrated co-axial electric axle (eAxle)

The semi-integrated co-axial single-speed electric axle system is the most compact variant of GKN's transmission designs.

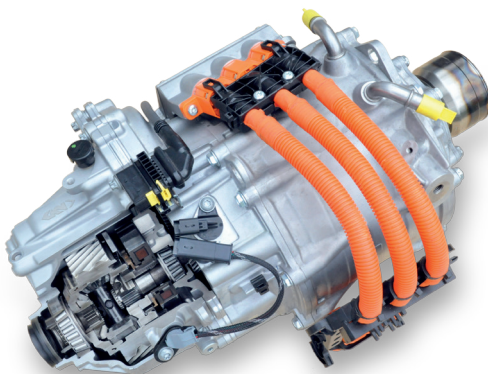
Light weight is achieved through the semi-integration concept of the entire electric drive module, such as common housings and combined e-motor shaft with geartrain.

The unique disconnect differential (EDD) allows to decouple the electric motor from the drivetrain at higher speeds to enhance system efficiency and to prevent the overspeeding of the electric motor. The EDD is actuated by a solenoid and uses a bespoke hall sensor for contactless measurement of the clutch position.



Benefits

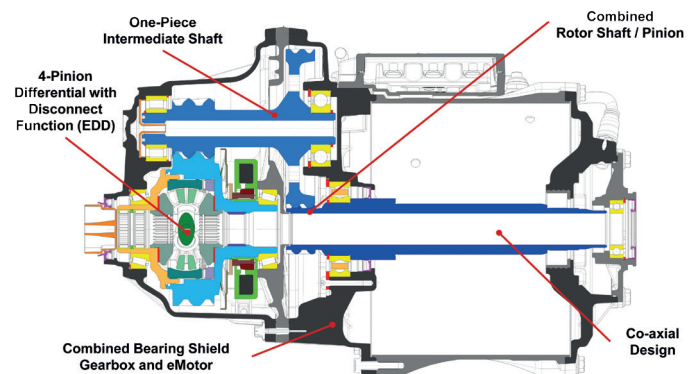
- > The eAxle is applied as secondary driven axle in hybrid AWD premium cars and SUVs
- > A unique, patented, disconnect system (EDD) allows high speed driving with minimum losses
- > The eAxle provides hybrid and electric modes along with energy efficient AWD functionality to maximize customer benefit



Overview Electric Drive Module

Technical Features

- > Semi-integrated, co-axial gearbox and eMotor layout
- > Two-stage single-speed layout
- > Electronic disconnect differential (EDD)
- > Total gear ratio: 1:10
- > Gearbox weight: 18kg (incl. oil)



Gearbox Design Features

For further information please contact:

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