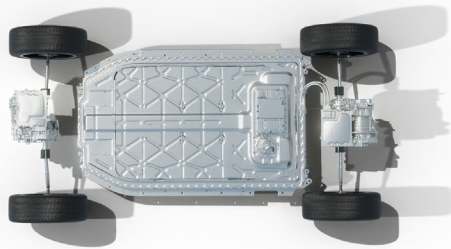


Magna eDS Mid+ for EtelligentReach Demonstrator



Magna eDS Mid+ Demonstrator

Primary Axle

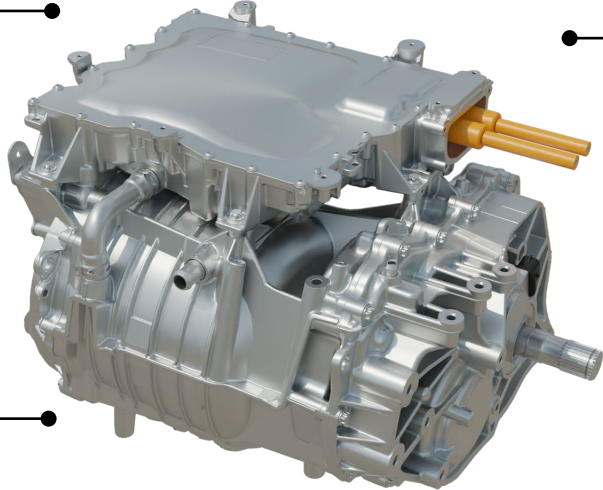


Magna's eDrive system on the front provides up to 207 kW. It can be applied to both hybrid and battery electric vehicles. Next-gen technologies support best-in-class efficiency, safety, convenience and dynamics.

for C, D, E, VAN Segment

Inverter

- SiC power electronics
- Boost option for higher torque & power
- Native speed interface for fast interaction w/ vehicle controls



E-motor

- PSM e-motor with highly efficient insertion winding technology

Parklock

- Electric BLDC actuation
- ASIL B, stay silent

Gearset

- Rotor shaft with 2 bearings
- Low loss gears applied for 2nd gearset

Magna eDS Mid+

Efficiency

35 W drag loss at 50 kph or
94 % max. efficiency
91.6 % avg. efficiency WLTC

Safety

< 200 ms fast reconnect time

Convenience

1 ms control loop of native speed interface

Dynamics

+ 8 % torque boost (7 sec.)
+ 22 % power boost (7 sec.)

Sustainability

Greenhouse gas neutral
manufacturing from 2025



Pre-Development

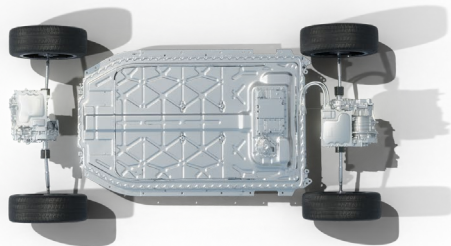
Released for Acquisition

Serial Development

Serial Production

Magna eDS Mid+ Demonstrator

Complimentary Axle (Rear)



Magna's eDrive system on the front provides up to 207 kW. It can be applied to both hybrid and battery electric vehicles. Next-gen technologies support best-in-class efficiency, safety, convenience and dynamics.

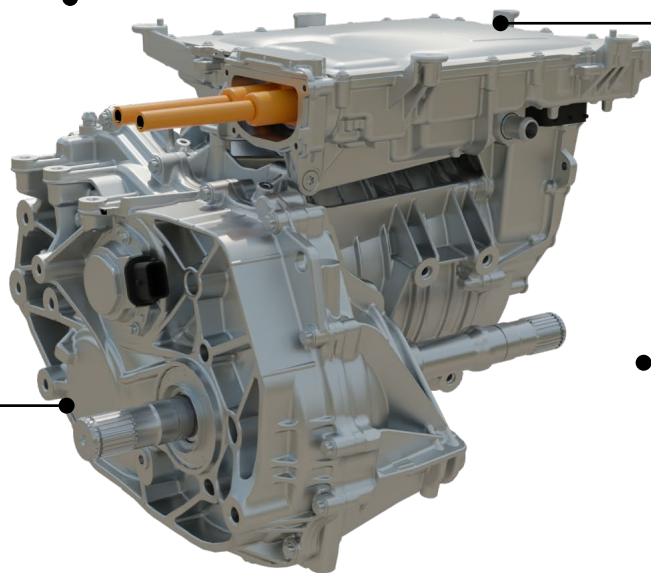
for C, D, E, VAN Segment

Inverter

- Si power electronics
- Boost option for higher torque & power
- Native speed interface for fast interaction w/ vehicle controls

E-motor

- PSM e-motor with highly efficient insertion winding technology



Decoupling

- Proven AWD technology combined with new controls strategy leading to improved efficiency (2WD) while maintaining performance and safety

Gearset

- Rotor shaft with 2 bearings
- Low loss gears applied for 2nd gearset

Magna eDS Mid+

Efficiency

35 W drag loss at 50 kph or
94 % max. efficiency
91.6 % avg. efficiency WLTC

Safety

< 200 ms fast reconnect time

Convenience

1 ms control loop of native speed interface

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+ 8 % torque boost (7 sec.)
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Sustainability

Greenhouse gas neutral
manufacturing from 2025



Pre-Development

Released for Acquisition

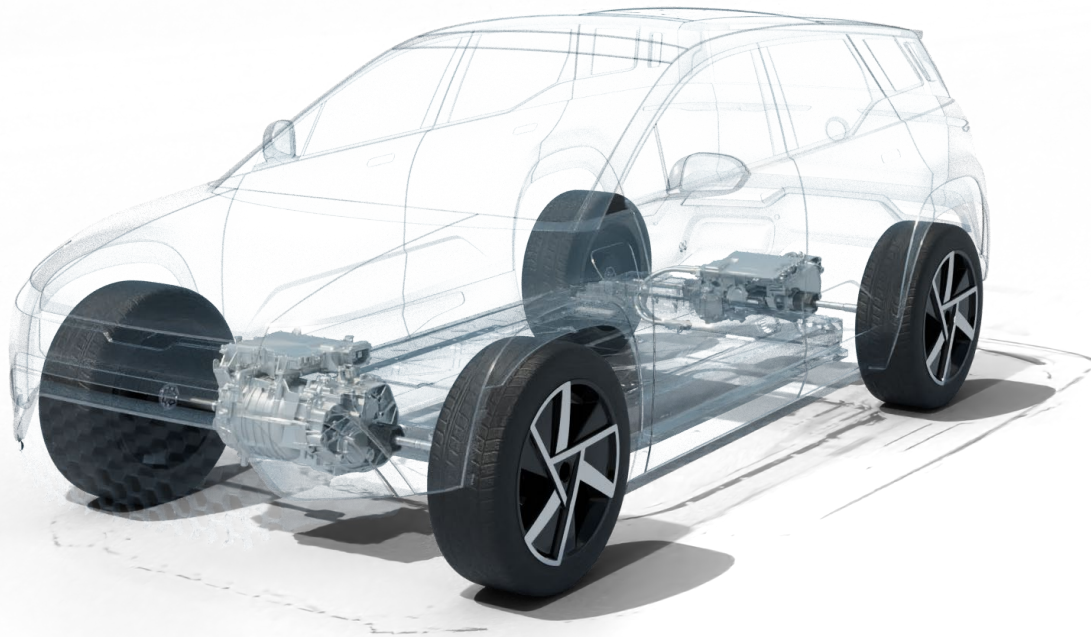
Serial Development

Serial Production

Magna eDS Mid+ Demonstrator



Magna's electric powertrain solution with highly integrated eDrive systems on the front and rear axles, as well as an intelligent operating strategy that allows for outstanding drivability in any situation with the most efficient energy use and an extended range.



Features/Specifications

Rear Electric Drive System Magna eDS Mid+ with Decoupling

Max. axle power	207 kW for 7s
Max. axle torque	4,290 Nm
Cont. axle power	83 kW
Ratio rear axle	11,349

Front Electric Drive System Magna eDS Mid+ with Parklock

Max. axle power	207 kW for 7s
Max. axle torque	4,290 Nm
Cont. axle power	83 kW
Ratio rear axle	11,349

& Magna Operating Strategy

Pre-Development Released for Acquisition Serial Development Serial Production

