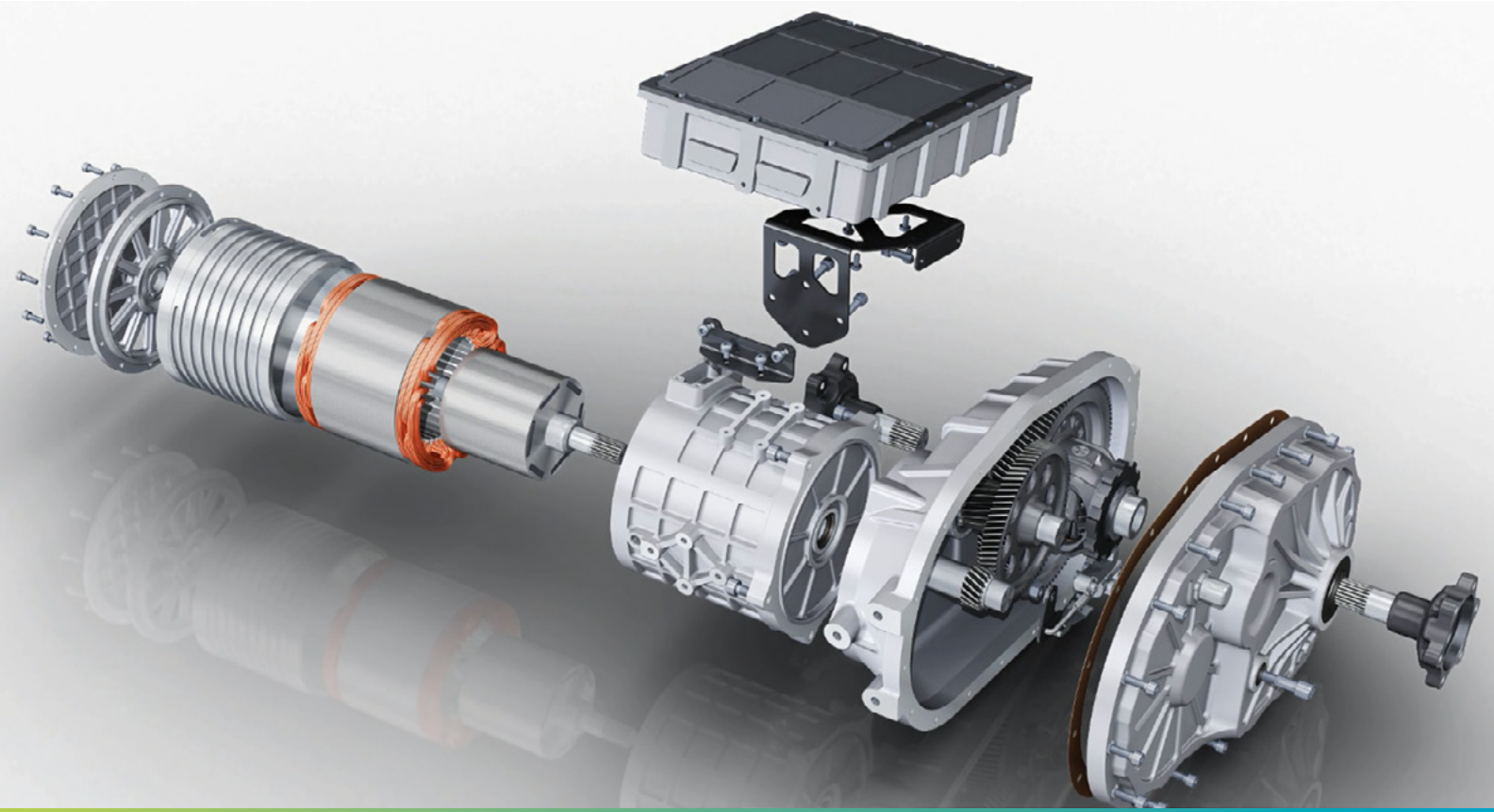




ePowertrain solutions

Develop longer lasting, quieter, more efficient and cost-effective ePowertrains



70% of EVs in the market are being engineered by using Hexagon solutions. Hexagon's ePowertrain solutions empower informed engineering decisions early in the product development process. We enable the exploration of full system simulation models of multiple complex and integrated ePowertrain layouts considering durability, NVH, efficiency with thermal performance.

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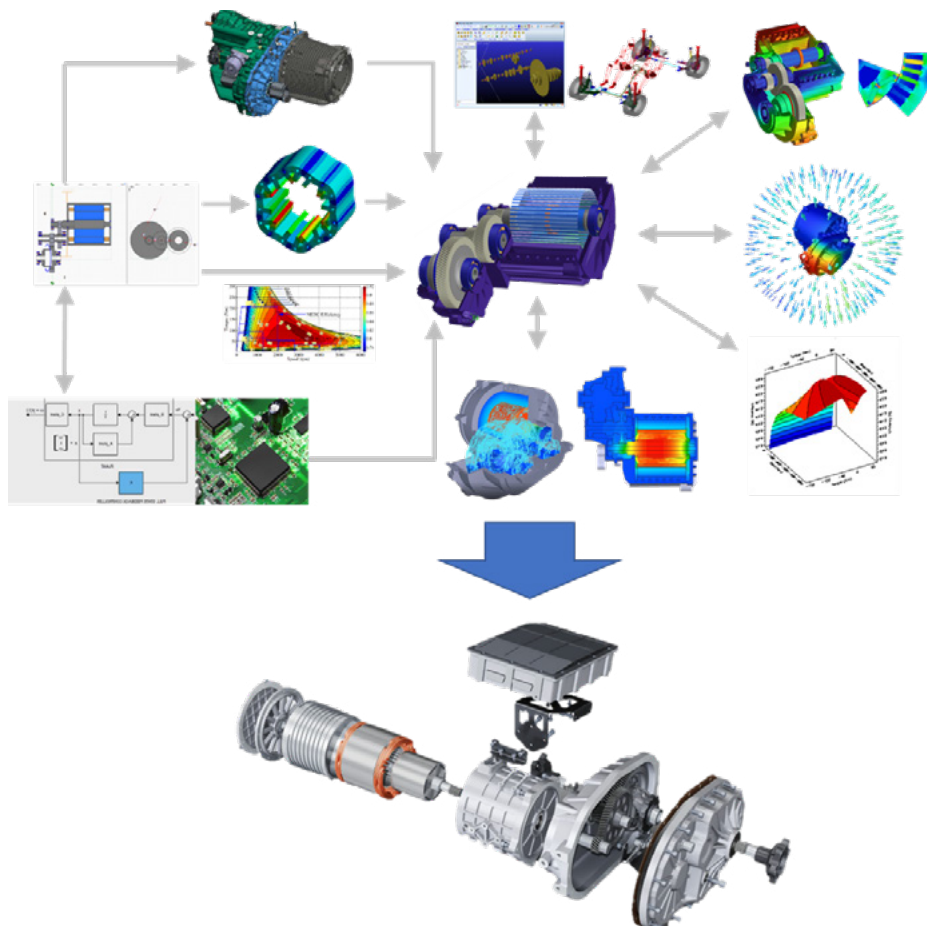
ePowertrain solutions

Backed by the gold standard in structural analysis, multi-body dynamics and the world's 1st geared system design and analysis solution, engineers can guarantee ePowertrain durability with confidence.

Our comprehensive offering enables evaluation of electromechanical NVH performance at an early stage: from the microscopic excitation through to the vibroacoustic prediction, all while considering the emergent excitations present when integrating the electric motor, drivetrain and power electronics.

In addition to meeting durability and NVH targets, ePowertrains must also be efficient. Our products offer the ability to perform system level drive cycle simulation and identify specific component losses, whilst our CFD solutions enable 10x productivity through improved meshing and advanced solvers allowing faster thermal analysis. These capabilities bring efficiency and thermal performance into the design decision making process.

We have over 30 year track record leading the technology and supporting OEMs, start-up EV companies and Tier 1 suppliers with our engineering expertise in ePowertrain design and development. Supporting over 50 customers on their electrification journey in the last 5 years, we deliver more than just software, we deliver ePowertrain solutions: optimal architecture selection, concept design, electromechanical design optimisation, NVH performance, proto-manufacturing and performance verifications.



ePowertrain design process using Hexagon's ePowertrain solutions

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