

## **Ansys Maxwell:** Three Decades of Electromagnetic Innovation

Year after year, Ansys Maxwell's advanced electromagnetic field solver technology has helped engineers achieve the most challenging design goals to create best-in-class electric machines, transformers, wireless charging devices, magnetic latches, actuators, and other electromechanical devices. Our R&D is dedicated to deliver the most cutting-edge innovations to help you solve your toughest electromagnetic challenges.



**3D A-PHI transient solver** 



Maxwell in Ansys Cloud Granta Material Integration



Domain decomposition method (DDM) Finite element – GPU Electrical Machine Design Toolkit



Time decomposition method (TDM)



Advanced permanent magnet

Spectral decomposition method (SDM) Advanced multiphysics coupling —NVH



2D multi-slice modeling Clone and layered mesh Reduced-order modeling (ROM)

Auto HPC

2015

Computation Time [min]

Distributed solve option (DSO) Vector hysteresis







