

Slot liners in e-motors (VE)

We have the capability to compute the performances (torque, mechanical and electric power, the losses...) of an e-motor using Fluxmotor from Altair. The difficulty is to get access to the geometry/configuration and the input data such as current, voltage, speed... Anyway, there are a few models, fully available in the library which allow us to run some calculations with realistic and reliable data. As an example, the performances of the Prius motor (2004) have been computed with different "slot liner types", as illustrated in this rather extensive [document](#). More recently, the ability to transpose the higher motor efficiency (due to reduction of slot liner thickness) into a higher compactness (weight savings) has been evaluated/demonstrated virtually using Fluxmotor; this study is available [here](#).



