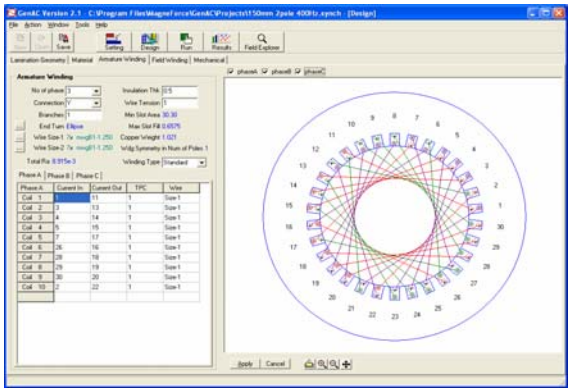
MagneForce
Software Systems, Inc.

Powerful, Synchronous Generator Design Tool

GenAC's primary solver utilizes an iterative approach in which machine magnetic fields are calculated utilizing the Finite Element Method. These results are used to calculate winding currents in a time domain SPICE circuit model. The process continues until convergence is achieved.

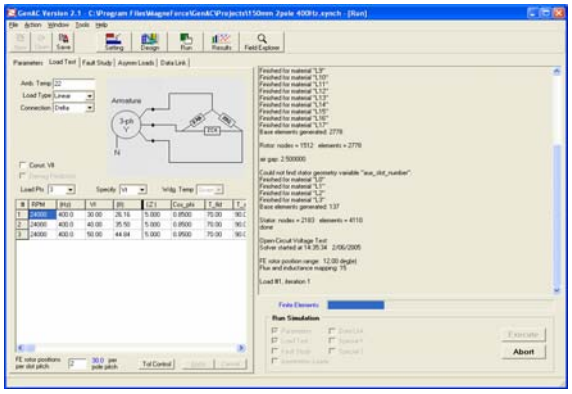
GenAC was designed for use by a wide range of engineers, from those wishing to perform "what-if" analysis on an existing design to advanced designers working on exotic new prototypes.

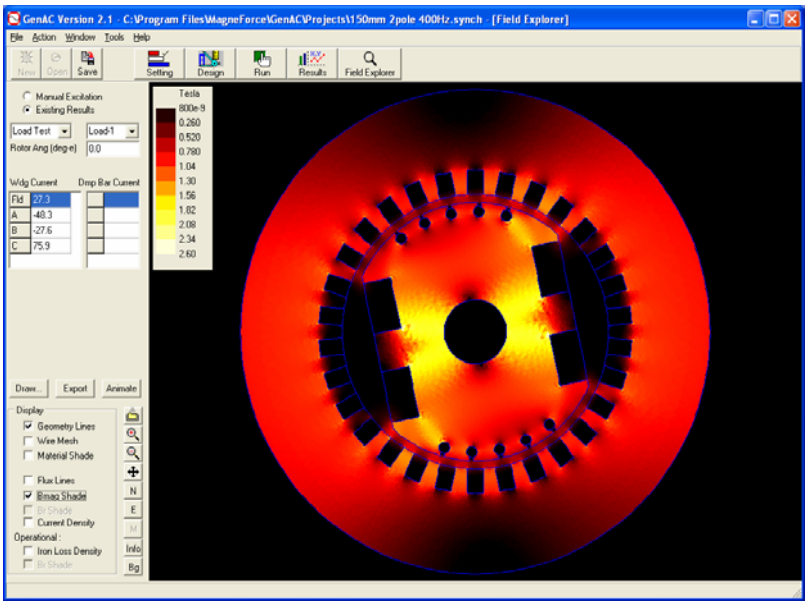
From start to finish, results will be obtained in hours, not days or weeks. This is possible due, in part, to MagneForce's large machine geometry library, a resource containing permanent magnet, wound field and inside-out designs. A designer can also draw completely from scratch. GenAC users also benefit from a quick learning curve, resulting in users reaching and maintaining software proficiency much more easily.



Major Features

- No Pre or Post Processing
- Parametrized or Flexible Geometry Input
- Easy Winding Input
- Flux Density Distribution
- Iron Loss Calculation
- Demagnetization Prediction
- All Machine Voltage and Current Waveforms
- Real and Imaginary Watts
- Efficiency & Power Factor
- Electronic & Network Loads
- Asymmetric Loads





Multiple Solvers

- Built In FE-SPICE Circuit Simulator
- Fault Study Simulation
- Data Links to Other Popular Circuit Simulators (Simulink, Sabre)

GenAC

Version 2.1

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