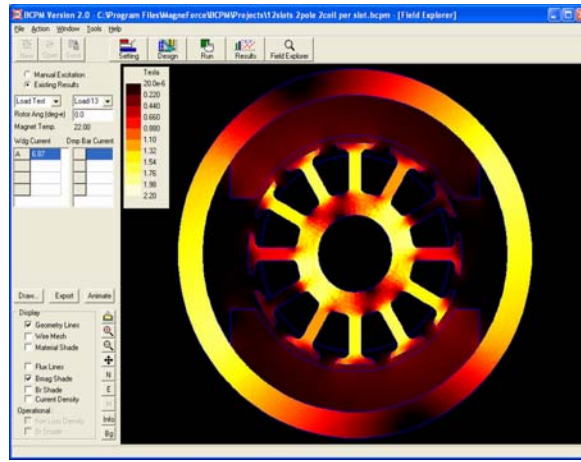


## Versatile, Conventional Brush-Commutated Motor Design Tool

BCPM is a conventional DC motor design environment. The process begins by choosing from a library of parameterized slot modules or by drawing from scratch. The library contains permanent magnet as well as series and parallel wound field designs. Once the geometry is set, materials are selected and the armature and commutator are described in real world, physical terms.

Using BCPM's built in schematic capture the designer next builds the drive and excitation circuitry. The design is then "run" using one of three solver methods. Magnetic parameters are calculated via the Finite Element Method.

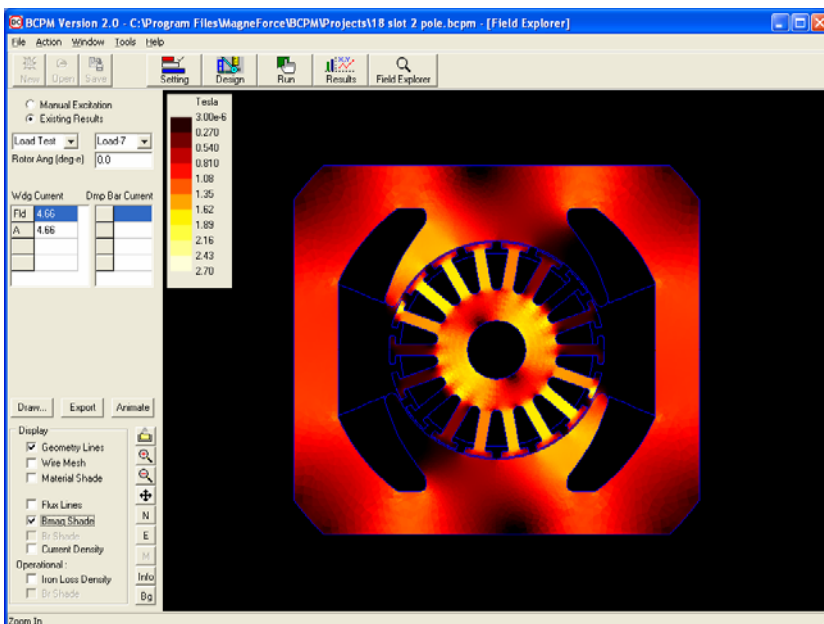
Full parameterized output is provided without any additional processing. Output ranges from machine inductances, currents, voltages, torques as well as flux density and demagnetization plots.



### Major Features

- Built-In Schematic Capture
- Permanent Magnet & Wound Field Designs
- No Pre or Post Processing
- Easy Winding & Commutator Description
- Flux Density Distribution
- Iron Loss Calculation
- Demagnetization Prediction
- All Machine Voltage and Current Waveforms
- Machine Power & Efficiency
- Torque (Output & Cogging)
- Parameterized or Flexible Geometry Input

BCPM is easy to use, as its settings and parameters relate to the physical device wherever possible.



### Multiple Solvers

- Coupled Finite Element - Time Domain Circuit Model
- Quick Parameter Calculation Method
- Data Links to Other Popular Circuit Simulators (Simulink, Sabre)

BCPM

Version  
2.0

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