ANSYS® BASED
3D THERMO-ELECTRIC
HEAT BALANCE MODELS
ANSYS® THERMO-ELECTRIC HEAT BALANCE MODELS

Price list

- 3D HALF ANODE
  $5,000 US

- 3D CATHODE SIDE OR END SLICE
  $5,000 US

- EROSION MACRO FOR 3D CATHODE SLICE
  $2,000 US

- 3D FULL CELL SIDE SLICE
  $10,000 US (including delivery of separate half anode and cathode side slice models)

- PREHEAT 3D FULL CELL SIDE SLICE
  $1,000 US for the conversion from a 3D Full Cell Side Slice

- 3D ANODE PANEL QUARTER
  $6,000 US (including delivery of a separate half anode model)

- 3D CATHODE QUARTER
  $20,000 US (including delivery of a separate cathode side slice and cathode end slice models)

- 3D FULL CELL QUARTER
  $25,000 US (including delivery of separate half anode, cathode side slice, anode panel quarter and cathode quarter models)

- PREHEAT 3D FULL CELL QUARTER
  $2,000 US for the conversion from a 3D Full Cell Quarter

- 2D+ FULL CELL SIDE SLICE
  $3,000 US

- DYNAMIC MACRO FOR 2D+ FULL CELL SIDE SLICE
  $3,000 US

For all models, the price includes the construction of a fully parametric geometry of your own cell design and the APDL source code of all the required macros (ANSYS® APDL programs that perform tasks like converging the ledge thickness).

$100 US per hour for support and model validation

For more information, contact: Dr. Marc Dupuis P. Eng., GéniSim Inc.
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3D CATHODE QUARTER

2D+ FULL CELL SIDE SLICE

3D FULL CELL QUARTER
**ANSYS® CATHODE EROSION MODEL**

Erosion profile of the base case model after 2 years

**Cathode Wear Evolution**

\[ y = 0.1856x^2 + 3.6976x \]

\[ R^2 = 1 \]

\[ y = 3.9924x \]

\[ R^2 = 0.9988 \]
ANSYS® THERMO-ELECTRIC TRANSIENT PREHEAT MODELS

3D FULL CELL SLICE

3D FULL CELL QUARTER