ANSYS® BASED
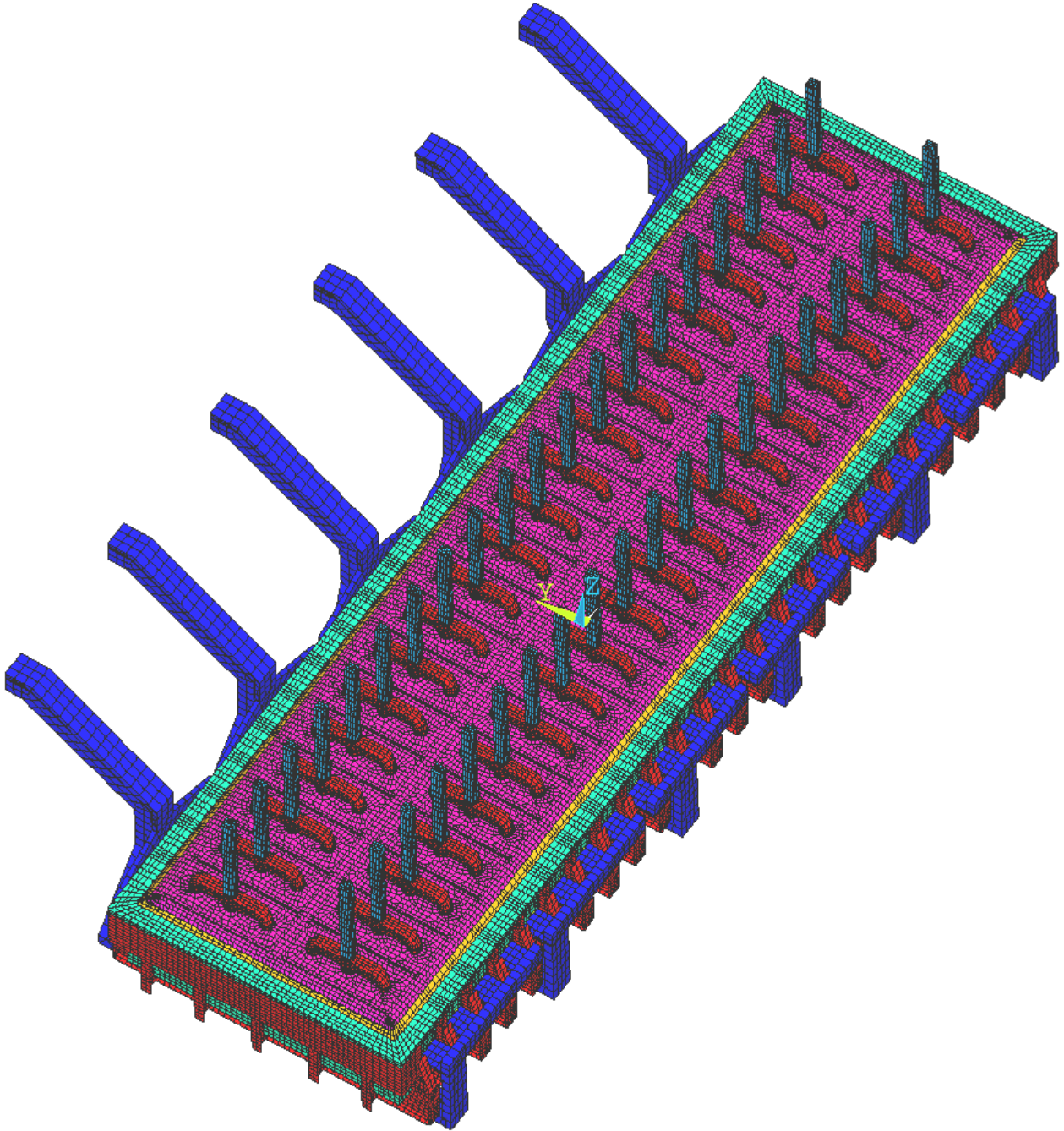
3D THERMO-ELECTRIC

HEAT BALANCE MODELS

GENISIM

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).
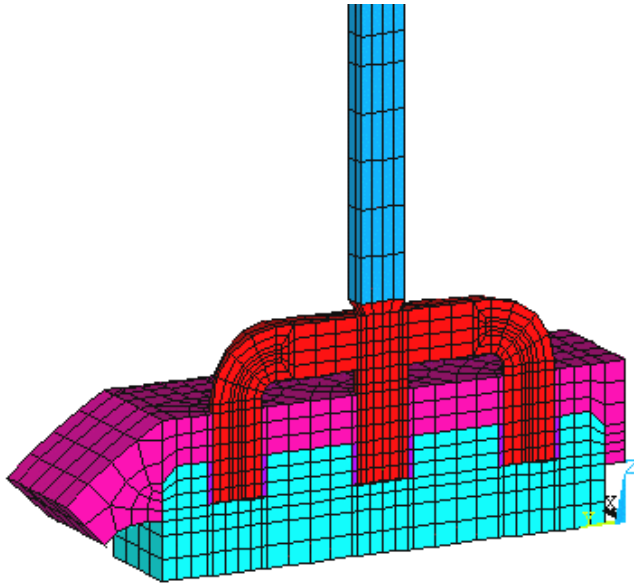
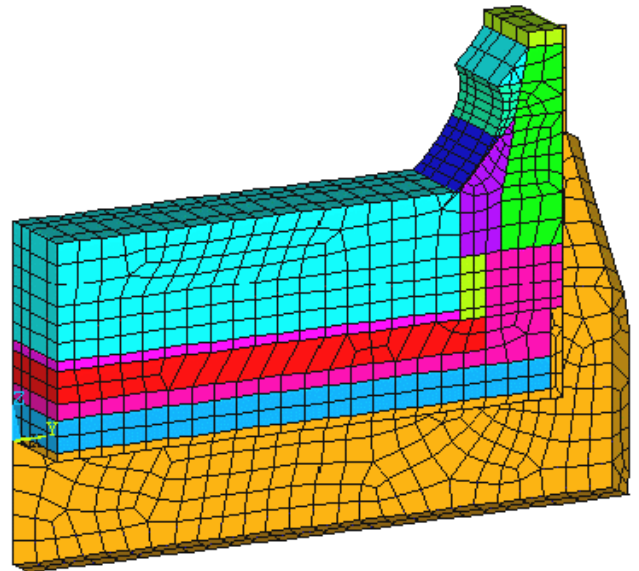$100 US per hour for support and model validation

For more information, contact: Dr. Marc Dupuis P. Eng., GéniSim Inc.
Phone : (418) 548-1541, Fax : (418) 548-4215
E-mail : marc.dupuis@genisim.com
Internet: http://www.genisim.com

ANSYS® THERMO-ELECTRIC HEAT BALANCE MODELS

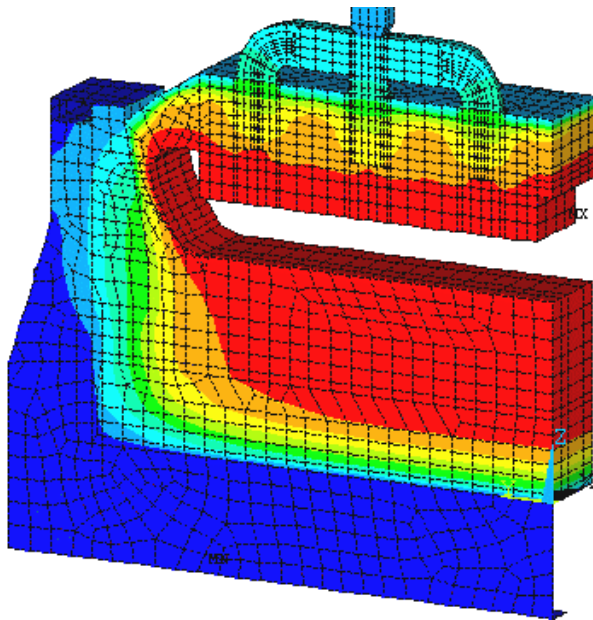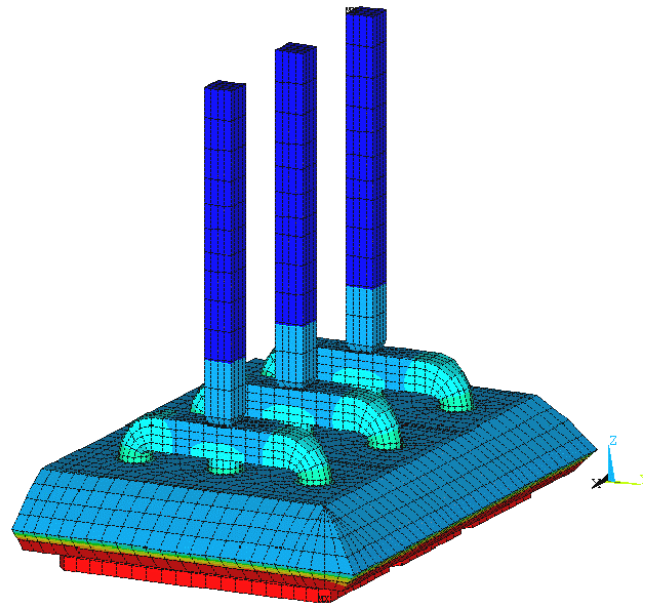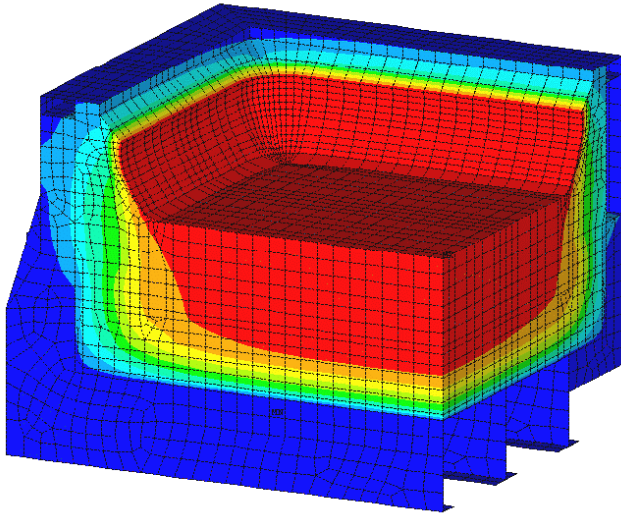

3D HALF ANODE

3D CATHODE SIDE SLICE

3D FULL CELL SIDE SLICE

3D ANODE PANEL QUARTER

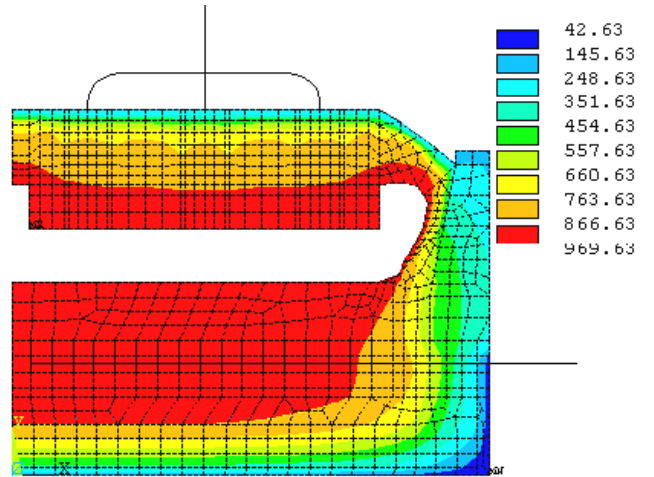GENISIM

ANSYS® THERMO-ELECTRIC
HEAT BALANCE MODELS

3D CATHODE QUARTER
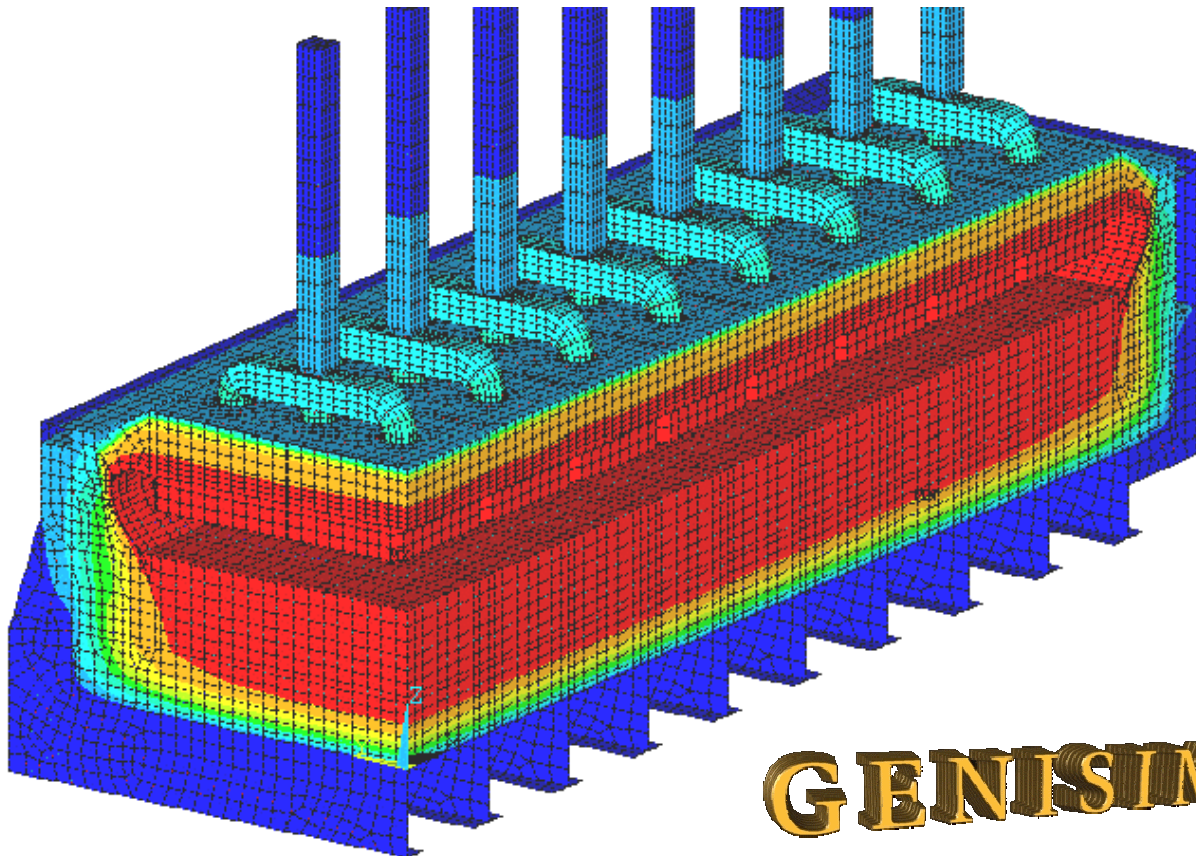
2D+ FULL CELL SIDE SLICE

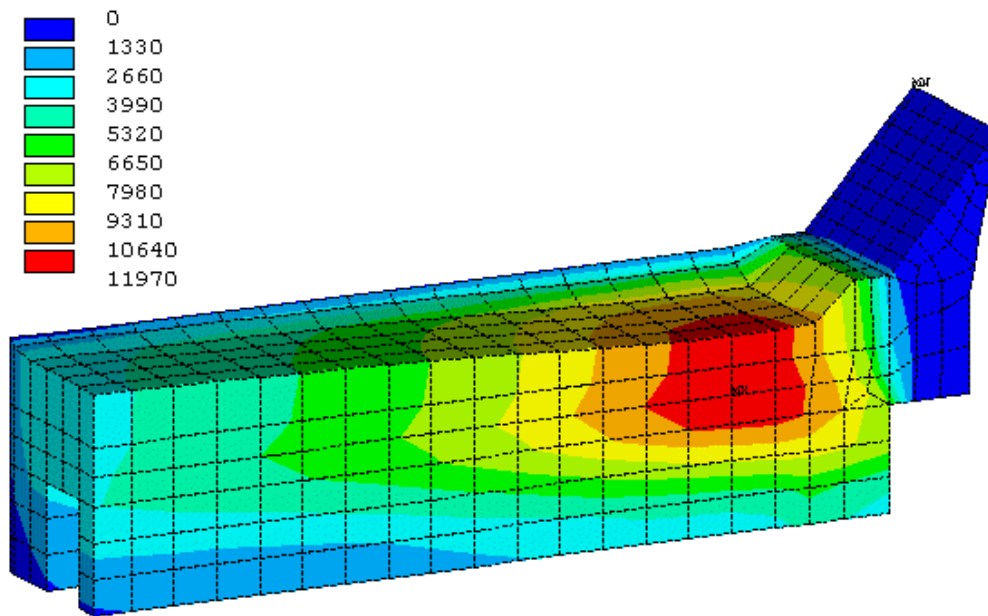|	
	42.63
	145.63
	248.63
	351.63
	454.63
	557.63
	660.63
	763.63
	866.63
	969.63

3D FULL CELL QUARTER

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ANSYS® CATHODE EROSION MODEL

Erosion profile of the base case model after 2 years

Cathode Wear Evolution

$y = 0.1856x^2 + 3.6976x$
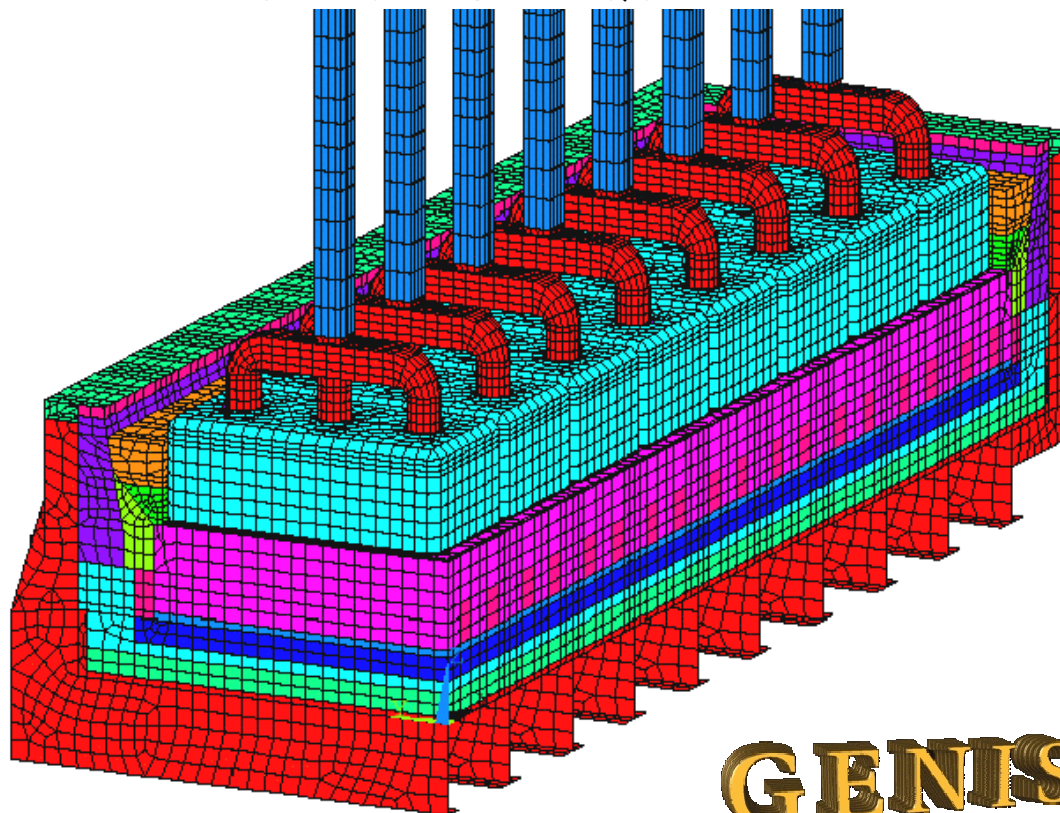$R^2 = 1$

$y = 3.9924x$
$R^2 = 0.9988$
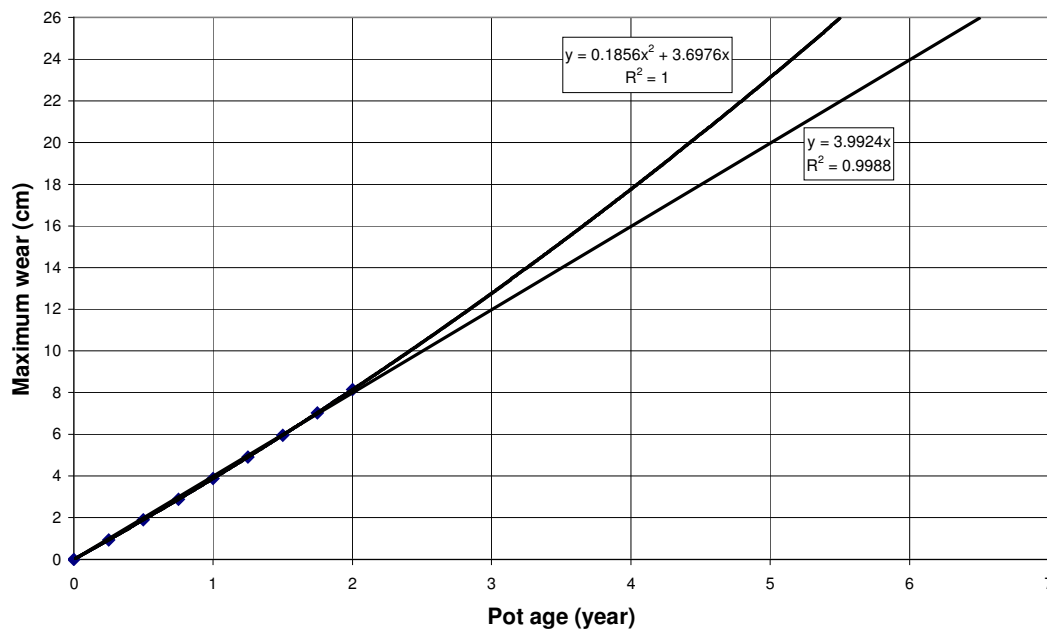
ANSYS® THERMO-ELECTRIC
TRANSIENT PREHEAT MODELS

3D FULL CELL SLICE

3D FULL CELL QUARTER

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