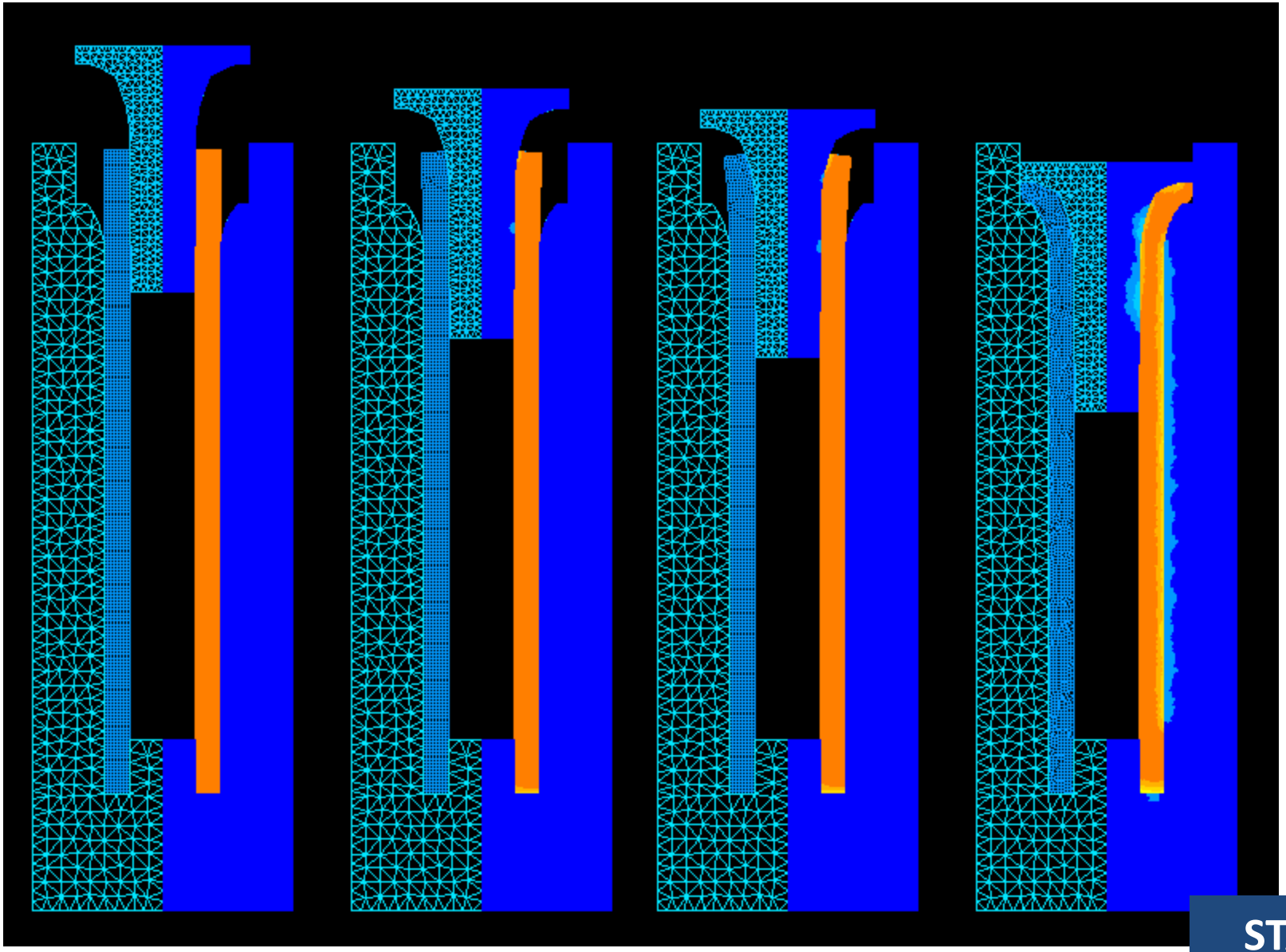
NAGSIM_GEN.2D

2D FEA Simulation Software - Hot Forging

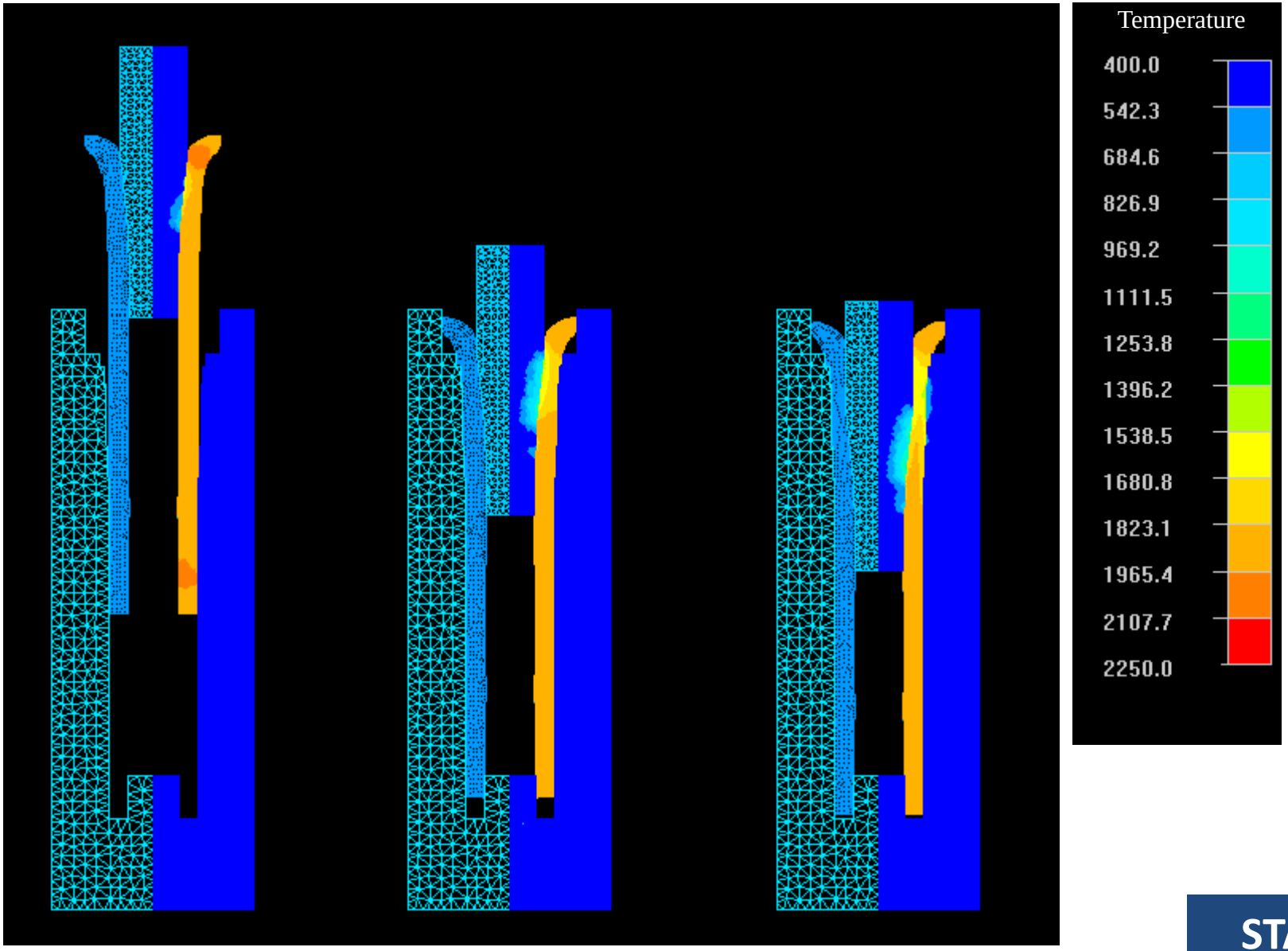
PART 1 – Tube Forming

SAMPLE EXAMPLE – NAGSIM_GEN.2D



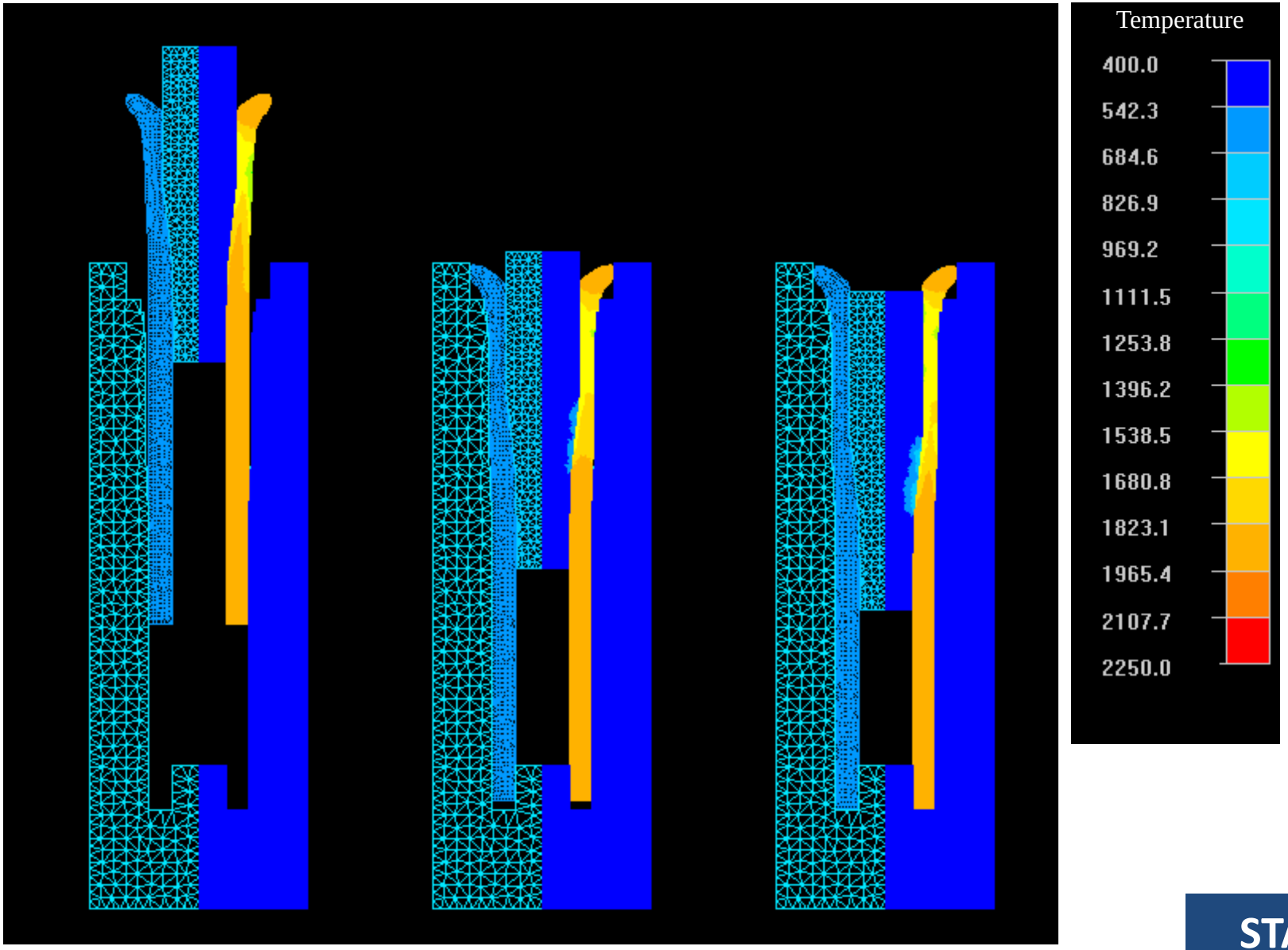
STATION 1

SAMPLE EXAMPLE – NAGSIM_GEN.2D



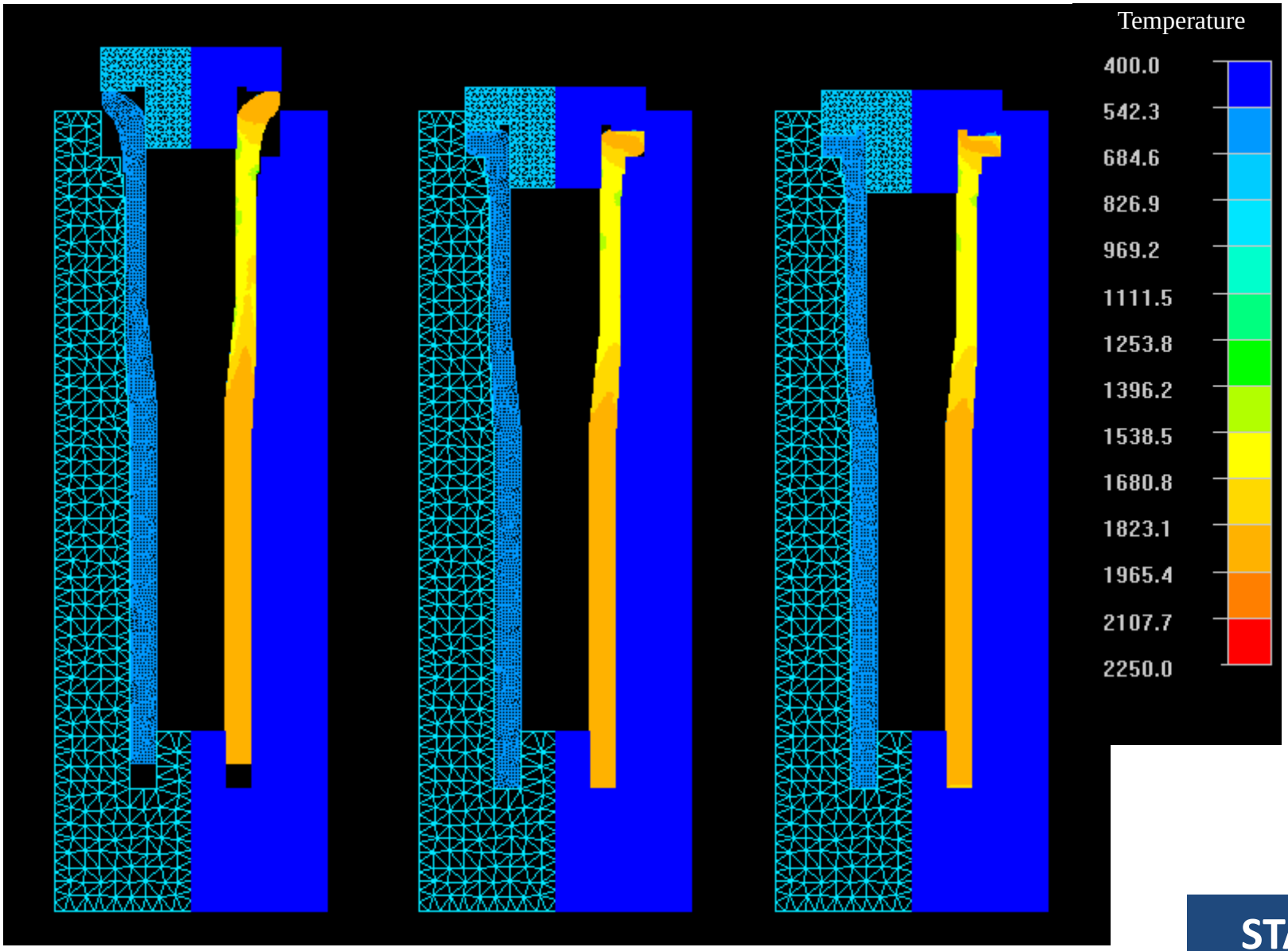
STATION 2

SAMPLE EXAMPLE – NAGSIM_GEN.2D



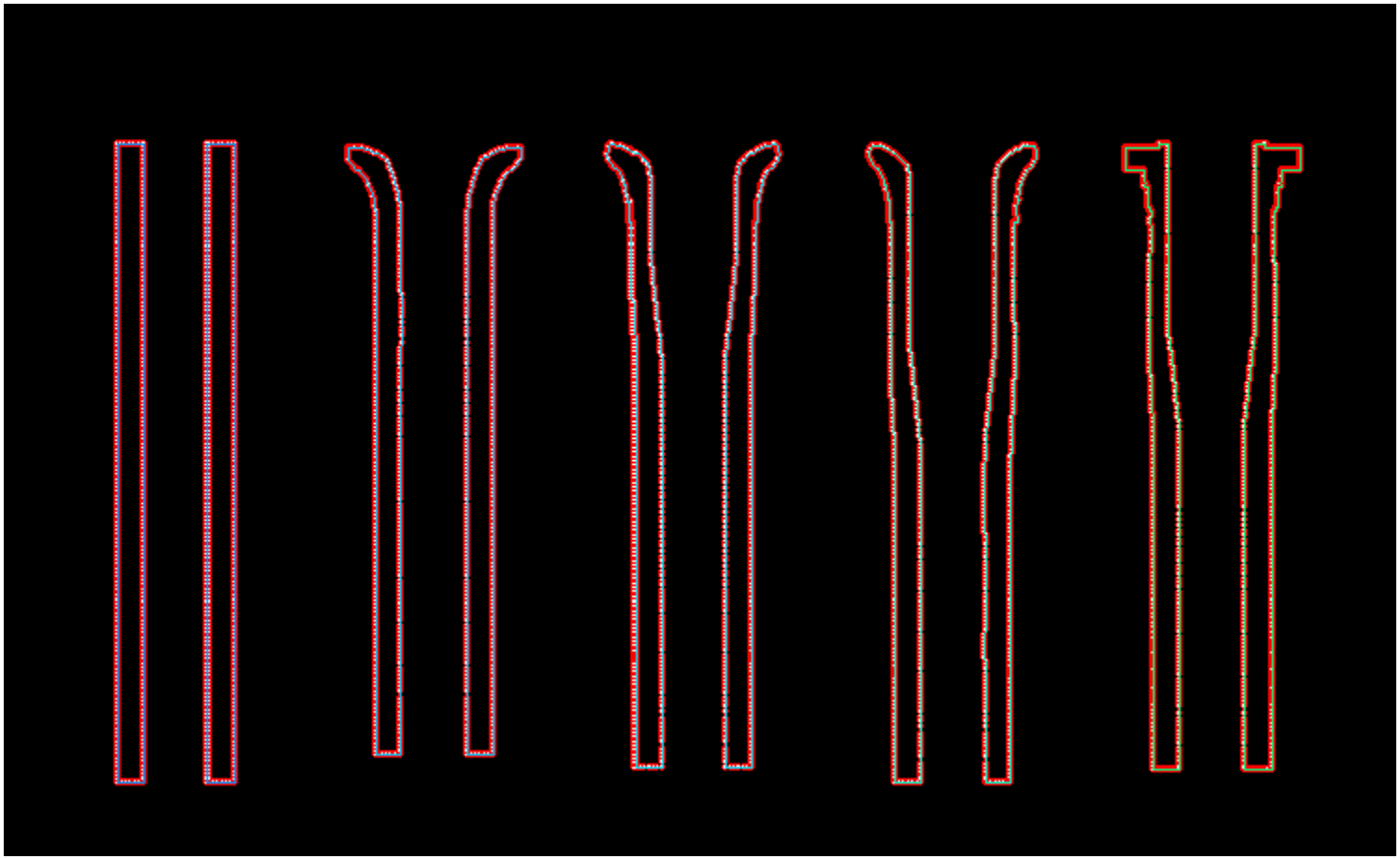
STATION 3

SAMPLE EXAMPLE – NAGSIM_GEN.2D



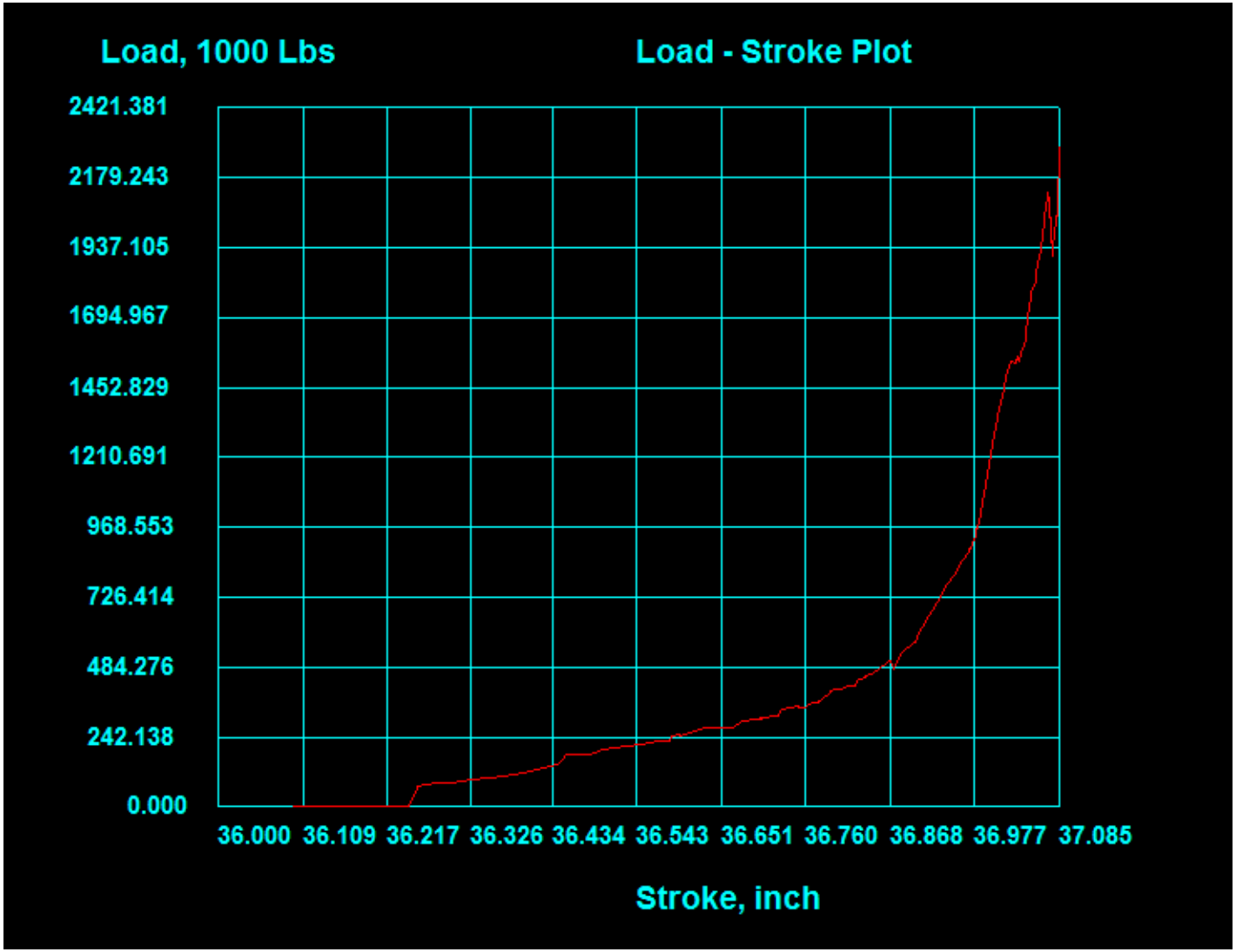
STATION 4

SAMPLE EXAMPLE – NAGSIM_GEN.2D

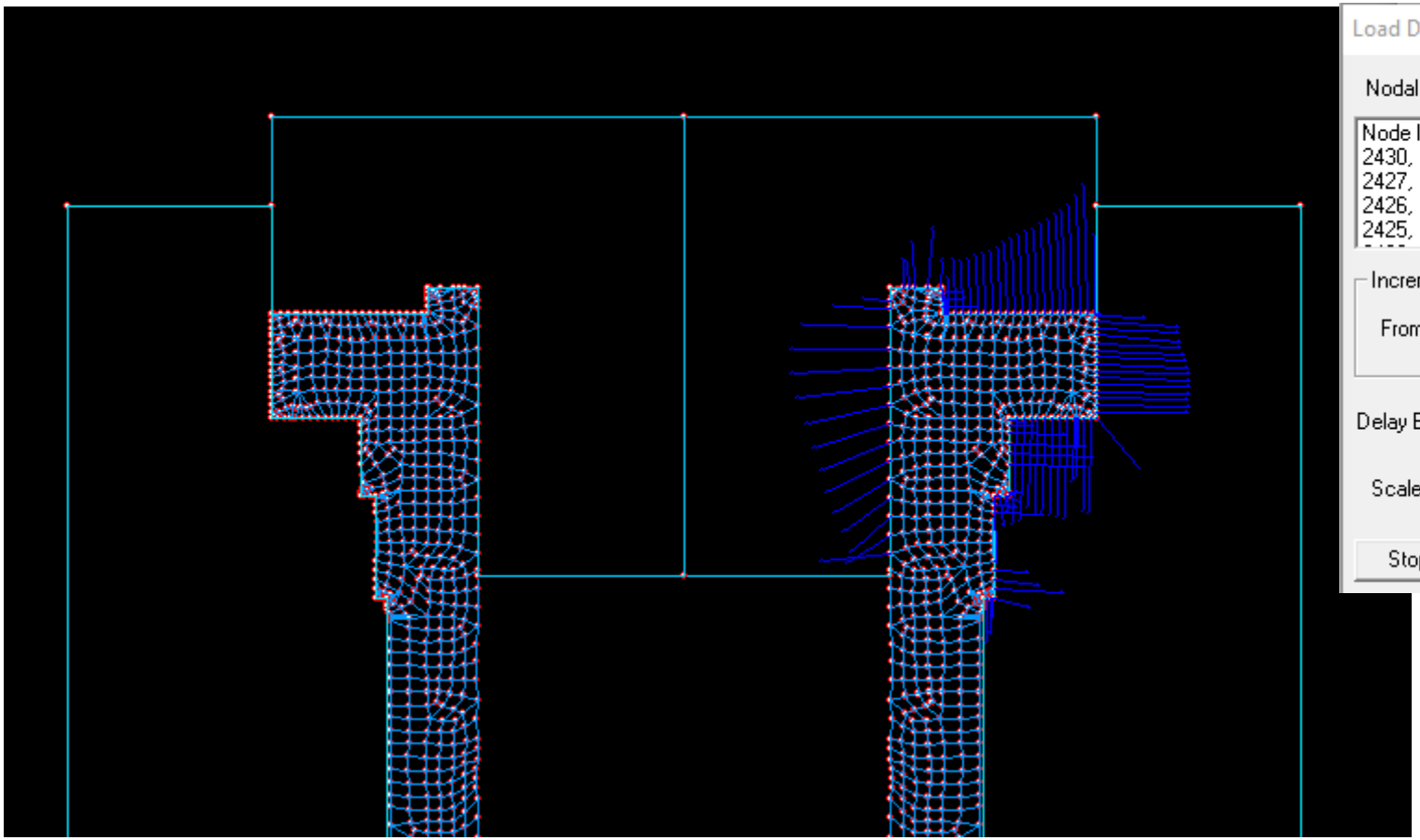


PROGRESSION BASED ON SIMULATION

SAMPLE EXAMPLE – NAGSIM_GEN.2D



LOAD STROKE CURVE (Current Station or Total load stroke for all stations)



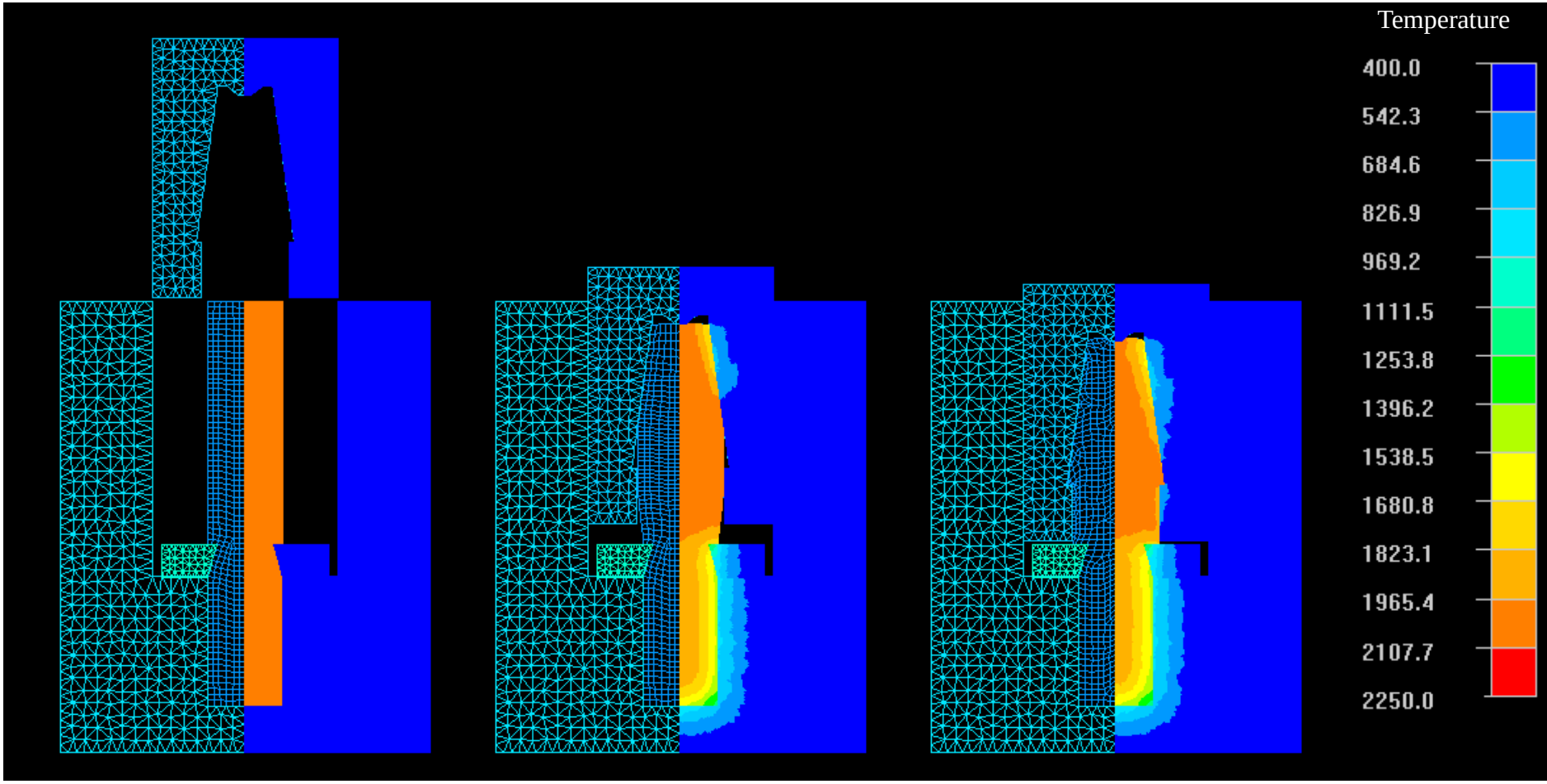
TOOL LOAD DISTRIBUTION

NAGSIM_GEN.2D

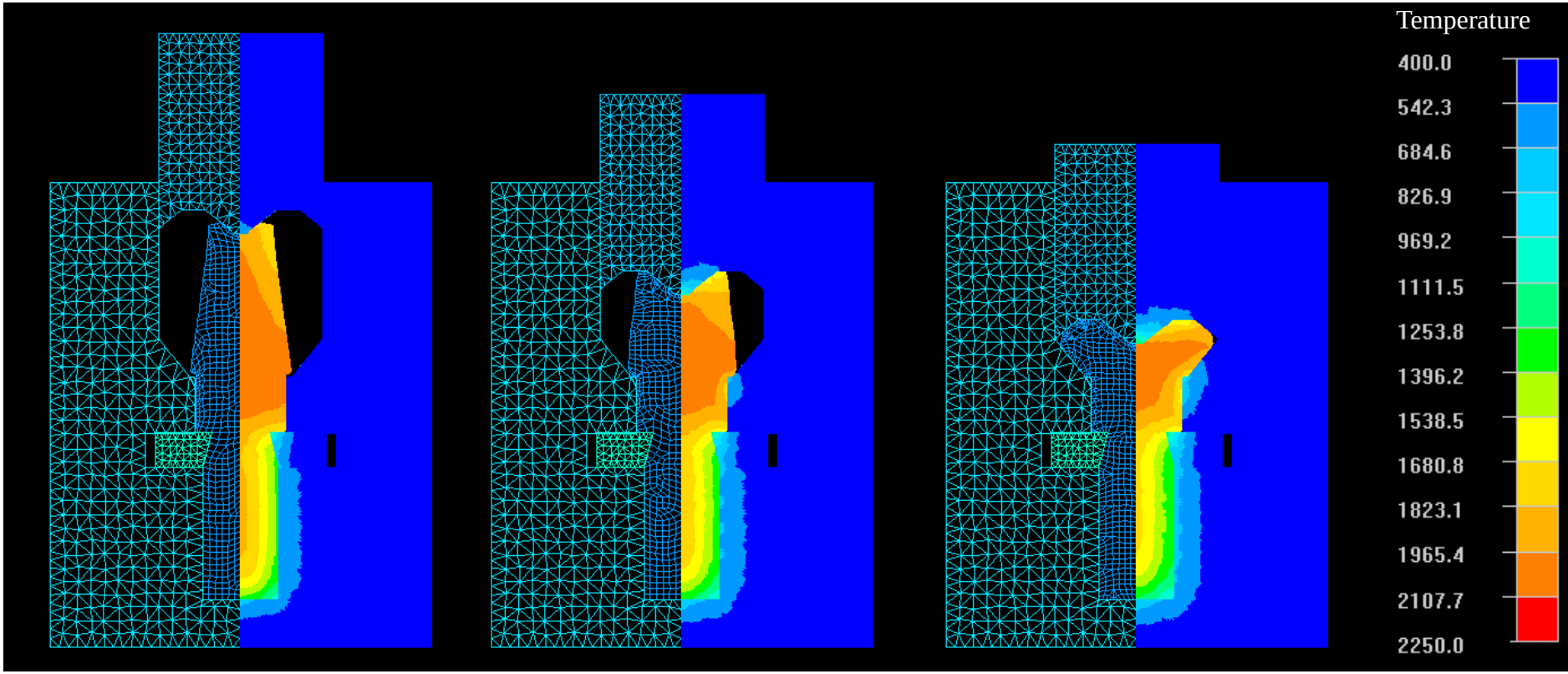
2D FEA Simulation Software - Hot Forging

PART 2

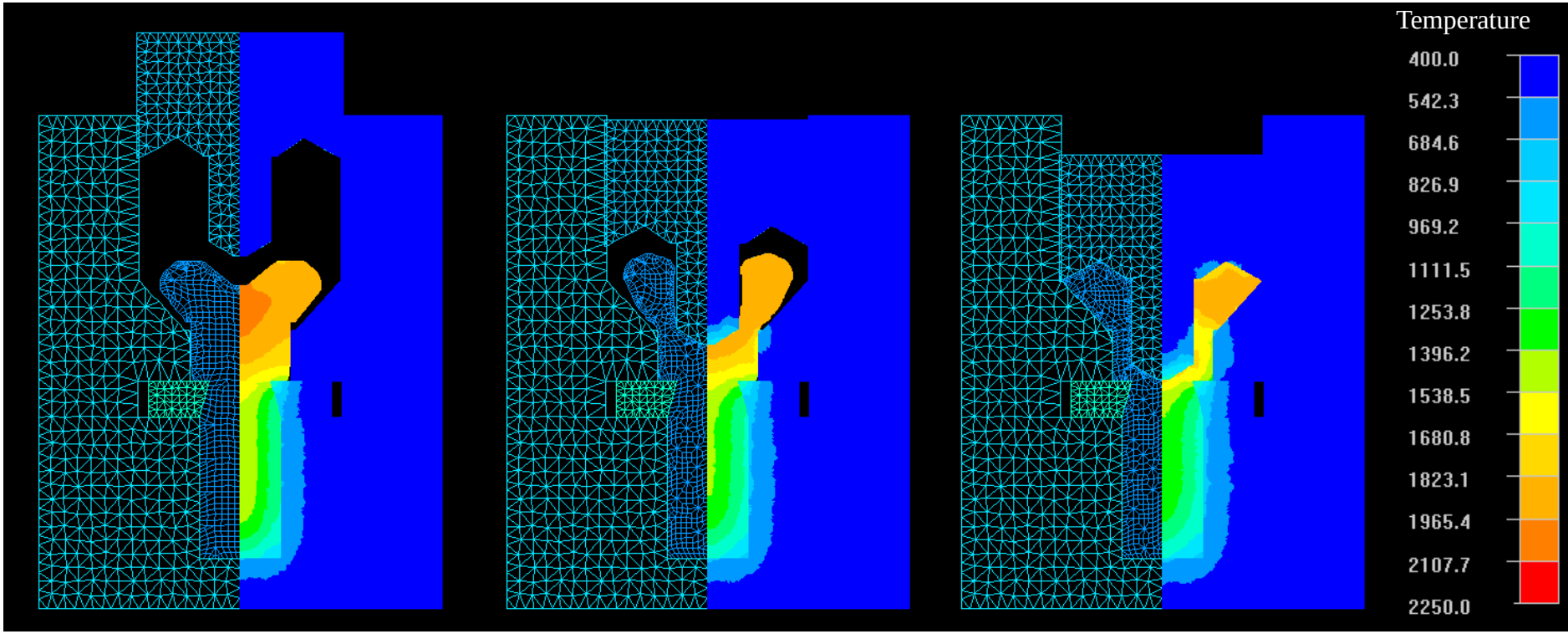
SAMPLE EXAMPLE – NAGSIM_GEN.2D



SAMPLE EXAMPLE – NAGSIM_GEN.2D

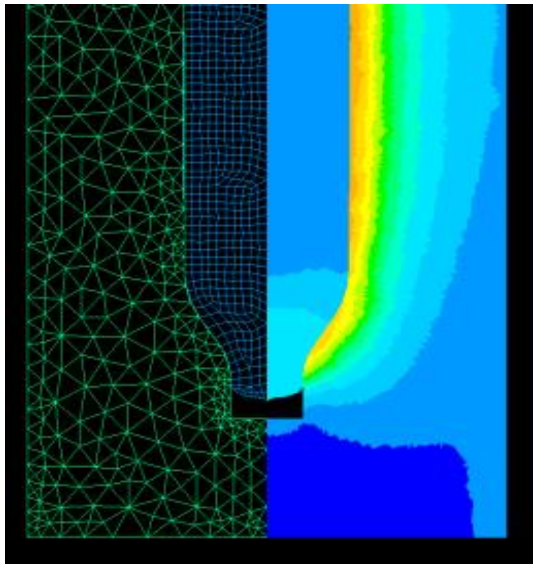


SAMPLE EXAMPLE – NAGSIM_GEN.2D



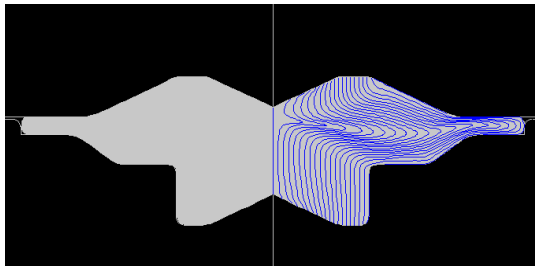
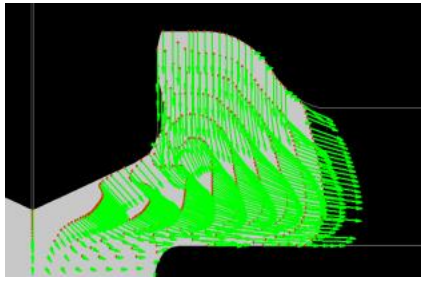
OTHER FEATURES

- **LAP PREDICTION** – the program has the capability to predict any folds / laps in the part through forming.



- **ELASTIC STRESS ANALYSIS IN TOOLS**
- **TOOL DEFLECTION**

- **GRAIN FLOW /FLOW LINES PREDICTION** – Flow lines defines the path of material movement during the deforming process.



- **ANIMATION OF VELOCITY VECTORS AT GRID POINTS**- Velocity vectors show the instantaneous direction of the metal flow at the grid points. It is useful in studying the grain distortion.