

# ULTRAMAX<sup>®</sup> Application Profile

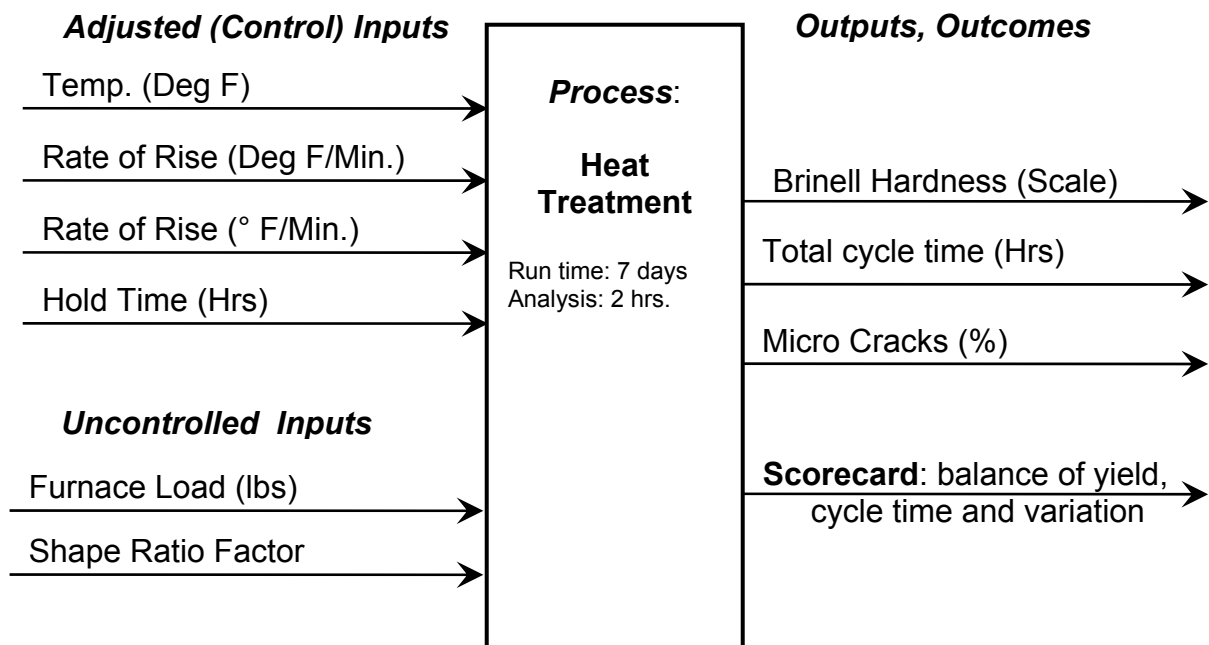
## Metals: Heat Treatments

**Process:** A job lot heat treatment furnace with electric heat source and sophisticated electronic control.

**Objectives:** Increase throughput (reduce cycle time) while meeting quality constraints. Reduction of cycle time is also aimed at reducing energy costs.

**Results Summary:** The average cycle time was reduced by about 10%, increasing throughput and reducing energy costs.

### DECISION INPUT/OUTPUT DIAGRAM



Optimizing the Scorecard implies satisfying constraints (not shown)