

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

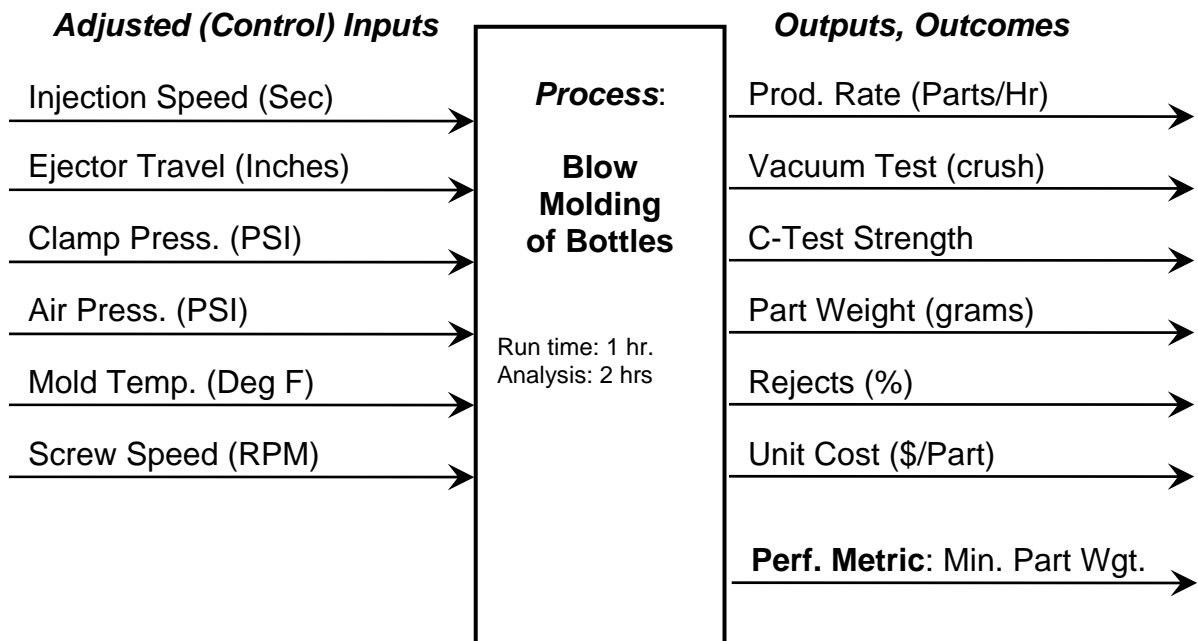
## Plastics: Blow Molding of Bottles

**Process:** This operation has an extended set up time and a wide specification range for part weight that allows for cost reduction if the spec can be met on the low side of the range, especially at a rate of 90,000 parts/day.

**Objectives:** Reduce part weight average (within specs) while maintaining quality (bottle strength).

**Results Summary:** Reduce part weight 7% (approx. 2 gm/bottle, \$1M/year savings).

### DECISION INPUT/OUTPUT DIAGRAM



Optimizing the Performance Metric implies satisfying constraints (not shown)