Cost and Production Analysis

- Cooling time is a key component of cycle times
  - Cycle time comprised of fill time, cooling time and ejection time

- Optimal fill times greatly increase gear production
  - Fill times are inversely proportional to annual gear production

![Fill Time vs Annual Gear Production](image)

- Cycle Time Affects Cost per Gear
  - Faster cycle times allow for more gears to be produced
  - Cost per gear decreases with decreased cycle times

![Cost Per Gear vs Cycle Time](image)