FALEX CORPORATION

Grease Life Tester | D3527 Replacement
Option 1: Update the existing design

- Servo motor for accurate torque feedback
- Torque cutoff can be set to a percentile over steady state conditions
- New data acquisition system
  - More data
  - Better resolution
- PID controlled cooldown cycle
  - Ramps down to a specified temp and maintains constant temperature during shutdown cycle
- Improved heating elements
  - Microprocessor controlled heating/cooling cycles
- More consistent insulation
- Uses same bearings
- $40-60k estimated
Option 2: New design and test method(s)

- Accommodates the use of tapered roller and/or angular contact bearings
  - Possible universal shaft design for easy use of multiple bearing size/type
- Radial and Axial Loading capabilities
- Servo motor for accurate torque feedback
- Ambient- 160 °C temp range (higher temps possible)
  - Sub ambient? (extra cost)
- 0-3,500 rpm microprocessor controlled variable speed
- Improved heating elements
- PID controlled cooldown cycle
  - Ramp down and maintain constant temperature during shutdown cycle
- DAQ provides better data for different failure parameters
  - Bearing wall temp rise
  - Torque spike from steady state
  - Excessive vibration
- Cost $60-80k