

The logo for FALEX, featuring the word "FALEX" in a bold, sans-serif font, slanted upwards to the right. The letters are filled with a gold color and outlined in a darker gold. The background of the entire slide is a light gray world map with two gold stars: one in North America and one in Europe.

FALEX

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