

# Testing of Grease Bearing Life at High Temperatures

## test method

Covers the evaluation of the performance of lubricating greases in ball bearings operating under light loads at high speeds and elevated temperatures.

## high temperature grease life tester

- Conforms to ASTM D3336
- Auto sequencing of test temperature cycle
- Stainless steel oven for clean operation environment around sample
- Auto shut off after preset torque
- HMI based chamber heater control and bearing temperature
- Auto Revolution – clockwise and counterclockwise 100 times at 200 RPM
- Safety interlocks of instrument and personal safety

The Koehler, K93800 High Temperature Grease Tester is an excellent tool to determine the life of lubricating grease is designed for operation at elevated temperatures.

The grease under test is filled in a bearing as specified by ASTM D3336 and mounted on a spindle. The bearing is located in the elevated temperature chamber that is used to heat the test grease to the desired temperature and maintain the temperature during a test.

The test applies relatively light load and runs the bearing at high speeds. This determines the ability of a grease to provide lubrication to the arrangement at elevated temperatures over extended periods of time.

## specifications

Conforms to the specifications of: ASTM D3336

Temperature Range: Ambient to +380°C

Temperature Accuracy:  $\pm 3^{\circ}\text{C}$

Test Speed: Maximum of 10,000 RPM  $\pm 2\%$

Thrust Load: 22 to 67 N  $\pm 2$  N

Test Duration: 0 to 9999 hours

### Electrical Requirements:

200 V, 50/60 Hz



K93800 High Temperature Grease Life Tester

## included accessories

- Dead Weights for Radial Load
- Test Sequence Controller
- Connecting Cable
- PID Temperature Controller
- Bearing Puller
- Test Bearing
- Thermocouple
- Spindle
- Spatula
- Spindle Oven

## ordering information

| catalog no. | description                                            |
|-------------|--------------------------------------------------------|
| K93800      | High Temperature Grease Bearing Tester<br>220V 50/60Hz |