FALEX High Speed High Temperature Bearing Test Rig

The Falex High Speed - High Temperature Bearing Test Rig offers versatility and operational simplicity. This test apparatus is designed to evaluate greases for extended periods of ball bearing operation under light loads, high speed and elevated temperatures.

The standard apparatus includes a “CRC" axially loaded test spindle. The spindle rotates two SAE No. 204 ball bearings; at 10,000 revolutions per minute under light loads. Alternate spindle systems are available upon request.

The instrumentation console allows operator control of the instrument test parameters and provides test data display. Standard configuration provides Chamber Temperature from ambient to 371° C (700° F), Torque, Specimen Temperature, Chamber Temperature, and Test Time displays.

The Falex High Speed-High Temperature Test Machine provides the accuracy and precision to obtain reliable test data as outlined in the ASTM Standard Test Method D 3336.

STANDARD TEST METHOD

ASTM D3336 - Standard Test Method for Life of Lubricating Greases in Ball Bearings at Elevated Temperatures Temperature

SPECIFICATIONS AND FEATURES

SPEED:
10,000 revolutions per minute under light loads.

LOAD:
15 lbs. maximum axial load, mechanically applied.

TEMPERATURE CONTROL:
Digital Temperature Control for Test Chamber System (370° C max)
High/Low Test Temperature Cutoff.

TIMING SYSTEM:
Digital Test Time Duration on and off timers and system total elapsed time indicator.

TEST DRIVE SYSTEM:
Variable Speed Motor.

TEST TORQUE SYSTEM:
Digital Test Torque display with high and low torque cutoffs.

CABINETRY:
Heavy construction steel with electro/mechanical compartment, test ovens, and instrumentation panel.

STANDARD SPINDLE ASSEMBLY:
Type "CRC" (full floating spindle) as described in ASTM D 3336.

SYSTEM DESCRIPTION

016-001-002 FALEX HIGH SPEED-HIGH TEMPERATURE BEARING TEST MACHINE

Independent Test Station
Test Speed - 10,000 RPM
Test Heater Chamber with Programmable Controller
Test Torque Display and Cutoff
Test Duration Display and Control
Type CRC (full floating spindle) as described in ASTM STM D3336

SYSTEM ACCESSORIES

016-040-001 SPINDLE ASSEMBLY FIXTURE

Stand alone fixture to assist with test spindle assembly prior to insertion in test oven.

643-187-070 AXIAL LOAD SPRINGS

As described in ASTM STM D 3336. 100 per pack.

551-545-175 FLAT BELT

650-010-036 REPLACEMENT HEATER

016-006-001 REPLACEMENT SPINDLE SHAFT

650-009-021 THERMOCOUPLE, TYPE J

016-040-002 DISASSEMBLY TOOL

829-078-024 LOCK NUT

TEST CONSUMABLES

016-078-001 TEST BEARING, MRC 204517

Fabricated from heat resistant steel, suitable for temperatures as high as 371°C (700°F). Equipped with suitable ball retainer.
Available as an individual unit or as a box of 10 units.

016-078-070 TEST BEARING, STANDARD

Fabricated from AISI 52100 steel, suitable for temperatures as high as 149°C (300°F). Equipped with suitable ball retainer.
Available as an individual unit or as a box of 10 units.

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