

# FALEX HIGH SPEED HIGH TEMPERATURE BEARING TEST RIG

## Versatility and Operational Simplicity

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 two independent "CRC" axially loaded test spindles. These spindles rotate 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.

## 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.



### Standard Test Methods

ASTM D3336 - Standard Test Method for Performance Characteristics of Lubricating Grease in Ball Bearings at Elevated Temperature

## Ordering Information

### Part Number Description

#### 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
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#### 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	Dissassembly Tool	
829-078-024	Lock Nuts	

#### 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.
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.

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Specifications are subject to change without notice.*

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