Bearing and Grease Noise Characteristics

grease noise tester

- Quantitative evaluation of grease/bearing noise characteristics
- Peak Detection Algorithm for detection of vibration peaks
- Data Acquisition Software package to monitor, record, and evaluate data
- High quality test spindle rotating at 1800 rpm
- Pneumatic loading device for the test bearing

The Grease Noise Tester evaluates the lubrication integrity of greases, providing a quantitative assessment of the noise characteristics of the grease. The use of clean lubricants is essential for obtaining long bearing life. Many factors affect the degree of cleanliness of greases during normal operation. A clean grease for initial lubrication as well as re-lubrication are essential to ensure machine longevity. In applications where bearing fatigue life is not critical such as low operating loads, a clean grease is essential to ensure low bearing noise required for many electric motor applications.

The Grease Noise Tester measures the specific disturbances caused by the rolling of particulates called vibration peaks, and features a proprietary Peak Detection Algorithm that singles out these vibration peaks from the total bearing vibration signal. The number of vibration peaks and their intensity are analyzed to determine a quantitative value for quiet running behavior of the bearing. In addition, the “grease damping ability” can be evaluated for a direct comparison between the running of a dry bearing versus the running of a lubricated bearing. Designed for proper testing while minimizing the risk of outside contamination, the semi-automated tester utilizes computer-controlled grease dosages and peak measurements on a single test bearing of special low noise quality. The operator simply mounts the test bearing and test grease syringe into the tester, programs the test parameters into the computer, and begins the test. The test results can be monitored, recorded, and evaluated with the data acquisition software package.

K94300 Grease Noise Tester

specifications

Electrical Requirements:
400-460 V, 50/60 Hz, 3 Phase
Spindle System: Hydrodynamic oil spindle
Spindle Speed: 1800 rpm
Air Supply: Pneumatic system, min. 5.5bar dry air
Axial Loading System: Pneumatic, 30 N maximum

Dimensions lxwxh,in.(cm)
56 ½ x 25 ½ x 70 (141x65x170)
Net Weight: 1870 lbs (850kg)

ordering information

catalog no.	description
K94300	Grease Noise Tester, 400-460V 50/60Hz, 3 Phase

accessories

K94301	Pickup (Velocity) Sensor
K94302	Calibration System
K94303	Test Bearing

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