

# Timken Tester

## test method

A steel test cup rotating at 800 RPM is pressed against a steel test block. Sample under test is carried by the test cup into the sliding contact. Test load at the contact is progressively increased, score value and OK value are determined.

## timken tester

The Koehler K920X5 Timken test rig is used to measure the extreme pressure properties of lubricating grease and lubricating fluids.

The Timken test rig is operated with a steel cup rotating at 800 rpm pressed against a steel test block. The sample under test is carried by the cup into sliding contact. The test load at the contact is progressively increased and score value and OK load value are determined.

### Features

- Compliant to ASTM D2509 and D2782
- Fluid recirculation system
- Automatic grease feeder
- Friction lever and weights
- 1:10 Loading lever with load cell and digital indicator
- Oil reservoir with heating system

## ordering information

catalog no.	description
<b>K92000</b>	Timken Tester, 220V 60Hz
<b>K92000-PN</b>	Timken Tester with Pneumatic Loading, 220V 60Hz
<b>K92090</b>	Timken Tester, 380V 50Hz
<b>K92090-PN</b>	Timken Tester with Pneumatic Loading, 380V 50Hz
<b>K92005</b>	Timken Tester, 115V 60Hz K92095 Timken Tester, 230V 50Hz
<b>K92090-5</b>	Digital Camera with Microscope and Manually Controlled Stage and Image Capturing Data Acquisition System
<b>K92090-6</b>	Acoustic Sensor
<b>K92090-7</b>	Vibration Sensor



K92090 Timken Tester

## specifications

Conforms to the specifications of:  
ASTM D2509, D2782  
Test Rig Outer Diameter: 49.22 mm  
Test Block: 12.32 x 12.32 x 19.1 mm  
Rotational Speed: 100 to 800 RPM  
Rate of Loading: 0.9 to 1.3 kg/sec  
Dead Weights: 52 kg  
Auto Fluid Recirculation Feeder: 3L capacity  
Auto Grease Feeder: 45 ± 10 g/min  
Preset Timer: 99hrs:59min:59sec  
Preset Temperature Controller: up to 100°C  
Loading Arm: 1:10 Ratio

### Included Components

Basic Test Rig  
2 HP Motor with Frequency Drive  
Precision Spindle Mounted Rugged Frame  
Loading Lever with Spring Loaded Pan  
Friction Lever with Sliding Weight & Pan  
Load Cell to Measure Normal Load  
Dead Weights Counter Weights  
Lubricating Recirculating System  
Auto Grease Feeder  
Test Cups (qty. 25)  
Test Specimens (qty. 25)  
Power Cables  
Calibration Reports  
Tool Kit