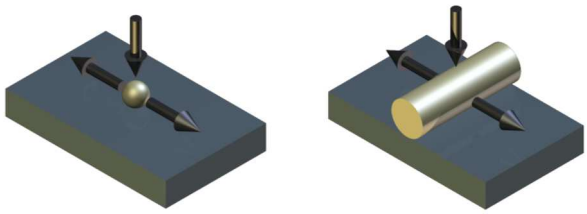
STANDARD TEST – RECIPROCATING TRIBOMETER

Value engineered tribometer for lubricated ball on flat tests



Features

- Touch screen PC for data logging and sequence control of load, speed and temperature
- Servo-pneumatic load control with force transducer feedback
- Piezo transducer for friction force measurement
- Servo-motor and scotch yoke mechanism for generating sinusoidal motion
- Fixed stroke lengths set by interchangeable cams

Standard Tests

Test may be run following the procedures specified in:

- D5706 Standard Test Method for Determining Extreme Pressure Properties of Lubricating Greases Using a High-Frequency, Linear-Oscillation Test Machine
- D5707 Standard Test Method for Measuring Friction and Wear Properties of Lubricating Grease Using a High-Frequency, Linear-Oscillation Test Machine
- D6425 Standard Test Method for Measuring Friction and Wear Properties of Extreme Pressure (EP) Lubricating Oils Using a High-Frequency, Linear-Oscillation Test Machine
- D7217 Standard Test Method for Determining Extreme Pressure Properties of Solid Bonded Films Using a High-Frequency, Linear-Oscillation Test Machine
- D7421 Standard Test Method for Determining Extreme Pressure Properties of Lubricating Oils Using High-Frequency, Linear-Oscillation Test Machine
- D7594 Standard Test Method for Determining Fretting Wear Resistance of Lubricating Greases Under High Hertzian Contact Pressures Using a High-Frequency, Linear-Oscillation Test Machine
- D8227 Standard Test Method for Determining the Coefficient of Friction of Synchronizer Lubricated by Mechanical Transmission Fluids (MTF) Using a High-Frequency, Linear-Oscillation Test Machine
- D8503 Standard Test Method for Determining the Scuffing Temperature Limit of Lubricating Oils Using a High-Frequency, Linear-Oscillation Test Machine

Order as:

- ST-RT Reciprocating Tribometer

STANDARD TEST - RECIPROCATING TRIBOMETER

Technical Specifications

Load:	Servo-controlled Pneumatic Bellows
Load Measurement:	Strain gauge force transducer
Friction Force:	Piezo Transducer
Load:	25 to 1200 N
Amplitude (Stroke):	0.15 (0.30) mm, 0.5 (1.0) mm, 1.0 (2.0) mm, 1.5 (3 mm), 2.0 (4 mm)
Maximum Frequency:	50 Hz
Temperature:	Ambient to 250°C
Temperature Sensor:	k-type thermocouple
Test Samples:	10 mm diameter ball 10 mm diameter cylinder
Control & Data Acquisition:	Touch-screen PC & Interface
Data Export:	USB Stick

Automatically Controlled Parameters

Frequency
Load
Temperature
Test Duration

Manually Controlled Parameters

Amplitude (Stroke)

Measured Parameters

Frequency
Load
Friction
Temperature
Test Duration
Friction Coefficient

Services

Electricity:	220/240V, single phase, 50 Hz, 3 kW 110/120 V, single phase, 60 Hz, 3 kW
Clean, dry air:	4 cfm at 8 bar (120 psi)