
Tender - Technical specifications for Linear Reciprocating Tribometer

A. Main Frame and Control System

- High density/high stiffness floor stand supporting platform with anchor design and control system
- Conforms to ASTM G133
- Suitable for Dry and liquid test
- Servo controlled Closed-loop Auto Loading System
- Max. Loading force up to 100N
- High speed on-line data acquisition system with analyzing & comparing system for Frictional Force, Co-efficient of friction, Normal Load, Specimen temperature

B. Load Cell, Friction Force Sensor with accessories

- Normal Load Range: 1 to 100 N; Resolution: ± 1 N or better
- Frictional Force through piezo-electric force transducer: up to 200N; Resolution ± 1 N or better

C. Reciprocating motion

- Minimum Stroke length: 1 mm or near
- Maximum Stroke length: 12 mm or higher
- Frequency: 1 to 50 Hz (stroke length dependent)

D. Liquid test

- Liquid/Oil cell for reciprocating module with anti-splash design

E. Upper Holders

- Universal Upper holder – ball / pin holder 6 mm to 10mm

F. Lower Holders

- Plate holder Dimensions 25 mm X 25 mm (or higher) without center hole

G. Software and Control System

- Complete data acquisition software for analyzing & comparing results

H. Sample Heating system for dry and liquid test

- Temperature range from ambient to 150°C or more and Resolution 1°C or better