

Four Ball Lubricant Tester ED-807

Shear Stability of Lubricating Oils, Extreme Pressure Oils and Greases

FEATURES:

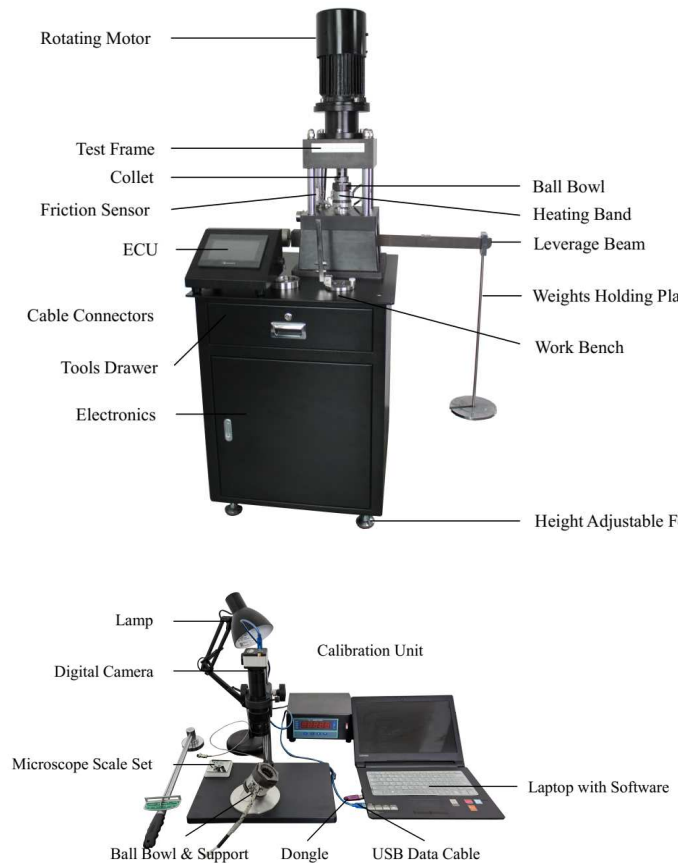
- Manual Loading
- Applied loads range up to 1000kgF
- Drive speed from 600 to 2800 rpm
- Digital timer and display with selectable range 1s to 99hr 99min
- Digital displays and microprocessor control of Applied Load and Torque
- Torque limiting and cut-off
- Interlocked guards for maximum safety
- Integrated heating pad and controller
- Unique test ball loading/removal tool
- Built-In Temperature Control Kit
- Built-In Wear Loading Assembly
- Grinding Resolution: 0.001mm
- Test Standards: ASTM D2266; ASTM D4172; ASTM D2596; ASTM D2783; IP239: CEC L-45-A-99

Test Method

A ball, mounted in a chuck, is rotated against three stationary balls in a pot containing the sample lubricant. The digital speed controller can be used to adjust the rotation speed. A load, adjustable in the range 10 to 1000 kgF, is applied to the balls via a balance beam. The applied load is displayed on a digital readout. The torque transferred between the rotating and stationary balls is measured and displayed on digital readout.

Wear Loading Assembly

The Wear Loading assembly allows user to apply load on the 4 Ball Tester thus allowing low loading/greater sensitivity.



Ball Loading/Release Assembly

The unique test ball loading/release device is included with the 4 Ball Tester allows test balls to be easily inserted and removed into the drive chuck.

Seta temperature control system

With temperature digital indication on LCD screen. HMI is used to set the desired temperature. This eliminates the need for heating pad.

Technical Specifications:

- Control: 7 inch touch Screen
- Speed Range: 600 to 2800 rpm
- Load Range: 10 to 1000 kgF
- Timer: 1s to 99hr 99min, resolution 0.1s
- Grinding Resolution: 0.001mm
- Temperature Kit: Built-In
- Weight Loading Assembly: Built-In
- Temperature Accuracy: ± 0.5°C
- Speed Accuracy: ± 5 r/min
- Operating Voltage: 220V/50Hz (This eliminates the need for 110V Auto transformer)

Test Method: ASTM D2266; ASTM D4172; ASTM D2596; ASTM D2783; IP239: CEC L-45-A-99

Standard Components:

- Ball Check 4-Ball
- Stability Head
- Temperature Control System
- Heating Band
- Torque Arm
- Wear Load Assembly
- Locking Cap
- Bearing Plate for Torque Arm
- Weight Trolley

- Voltage: 220V 50Hz
- Power: 1500W
- Dimensions: 170 X 64 X 60 cm

OPTIONAL ACCESSORIES:

CCD digital microscope

For x/y linear measurement and viewing of ball scar, complete with camera and software.

Test balls

For ASTM D2266, D2596, D2783, D4172. Pack of 500

Seta Load Calibration Kit

This kit is used to calibrate the load cell. This load cell calculates the load applied to the Four-ball assembly.

Assorted Weights for Load Assembly

Different calibrated weights to perform the test standards.

Comparison with Stanhope SETA

Features	Stanhope-SETA Four Ball Lubricant Tester	EDIDAC Four Ball Lubricant Tester
Applied Load	800kgF	1000kgF
Dive Speed(rpm)	1200 to 1760	600 to 2800
Temperature Control System	Optional	Built-In
Wear Load Assembly	Optional	Built-In
Grinding Resolution	0.01mm	0.001mm
Auto Transformer	Optional	Built-In
Torque Arm	Optional	Built-In
Weight Trolley	N/A	Built-In
4 Ball Rack	Optional	Built-In
Control	Digital Controller	7 inch HMI LCD