

# Lubricity Evaluation Monitor



**Brand:** OFI Testing Equipment, Inc.

**Product Code:** 113-00

**Availability:** Call for availability

## Description

The Lubricity Evaluation Monitor (LEM) is a laboratory device designed to evaluate lubricants by direct comparison. It determines the coefficient of friction between an interchangeable wellbore sample (casing, formation, sandstone, etc.) pressed against a rotating steel bob while immersed in a circulating cup of test fluid.

## Features

- Pneumatic ram applies side load pushing the bob against the sample
- Periodic refresh of test fluid by pulling bob away from sample at definable intervals
- Clamp allows samples of casing, formation, sandstone, etc. to be tested in the same fixture
- Computerized data acquisition and control
- Software
  - Operator inputs rotational speed, side load, and refresh period
  - Test archive provides access to historical data
  - Graphs rotational speed (RPM), torque (in-lb), side load (lb), and coefficient of friction with respect to time

## Specifications

- Sample cup capacity: 350 mL
- Range of Mud Weights: 0.83 - 18.0 lbs
- Torque Transducer Maximum Range: 100 lbf-in

- Torque Resolution: +/- 0.1% of full scale combined
- Maximum Side Load: 60 lbf
- Maximum Rotational Speed: 200 RPM
- Speed of Circulating Pump: 20 - 500 RPM
- Calibration: Coefficient of Friction of Water = .32 - .36
- Test Cell Material: Acrylic
- Bob Material: 4140 Steel - Rockwell Hardness of 37

## **Requirements**

- Electrical Supply: 220 Volts
- Air Supply: 60 - 100 PSI

## **Part Number**

- #113-00