



## CEMENT TESTING EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our cement product line includes innovative designs such as the Static Gel Strength Measurement Device (SGSM), which showcases our ability to develop new technology to meet customer and industry demands. We also offer Ultrasonic Cement Analyzers (UCA), Constant Speed Blenders, Automated HTHP Consistometers, and all other instruments required to evaluate cement properties according to API Specification 10.

As an independent manufacturer and supplier, OFITE has one priority, our customers.



## CLF-40 Automated Compressive Load Frame

The CLF-40 Automated Compressive Load Frame was designed to determine the compressive strength of a well cement. The most common means of determining the compressive strength of a cement involves applying a force to the sample at a constant rate until the sample fails. The maximum loading at which the cement fails is defined as the cement's compressive strength.



## Features

- **Windows® based, Computerized Data Acquisition and Control system:** provides detailed test information, precise control, and allows cylindrical and cube-shaped samples
- **Small foot-print:** saves valuable lab space and increases efficiency with quick and easy clean up
- **Safety minded:** clamshell head design and safety switches protect people and equipment from possible debris during operation
- **Prevents over pressure:** a safety head, rupture disk, and high-pressure alarm assembly
- **Self-Aligning platens:** easier to load samples and allows for equal force to be applied
- **Communication:** operates in standalone or with computer control via RS-232 or Ethernet connections
- **Loading Rates:** variable load rate and constant load testing



## Technical Specifications and Requirements

- #120-285 CLF-40 Automated Compressive Strength Tester, 115 Volt
- #120-285-230 CLF-40 Automated Compressive Strength Tester, 230 Volt

### Specifications

- Maximum press capacity: 40,000 lbf.
- Maximum Pressure: 10,000 PSI (based on a 2" cement cube with surface area of 4 in<sup>2</sup>)
- Minimum press threshold: 1,000 lbf.
- Minimum Pressure: 250 PSI (based on a 2" cement cube with surface area of 4 in<sup>2</sup>)
- Loading rates variable from 250 to 40,000 lbf/min (increments of 250)
- Size: 23" W x 23" D x 26.5" H (58 x 58 x 67 cm)
- Weight: 225 lb (102 kg)

### Requirements

- Power Supply: 115 / 220 Volt, 50/60 Hz

## Software Features

- Tailored interface so the most common actions are the easiest to locate
- Tab and drop-down based software, optimizing page screen areas, without sacrificing the amount of information presented at once
- Capable of testing varying samples and displaying results on a real-time chart
- Records historical data for easy analysis

