



## CS844 Series: Carbon/Sulfur by Combustion

# CS844 Series: Carbon/Sulfur by Combustion

LECO's CS844 Series will redefine the way you determine carbon and sulfur in primary steels, ores, finished metals, and other inorganic materials. Using extensive customer feedback and innovative engineering, our latest instrumentation takes advantage of an on-board software platform powered by a touch-screen interface to increase usability and lower the cost-per-analysis.

Additional features—such as a high-efficiency combustion furnace, improved IR cell design, rugged design, and available automation—make the CS844 Series a valuable resource for any industrial environment needing accurate analysis of carbon and/or sulfur.



## User-Friendly Cornerstone™ Software

LECO's exclusive Cornerstone software with touch interface enables the user to have complete access to analysis control, method settings, diagnostics, reporting and more in a highly organized and immersive environment. Designed through a collaboration of customer feedback and innovative engineering, Cornerstone allows the user to conduct all of their day-to-day operations within a single Analysis screen designed for speed and ease-of-use. Our innovative grouping of sample data into sets and replicates simplifies the data output and automatically calculates relevant statistics, alleviating the need for additional data processing.



## Software Features & Benefits

Cornerstone software is divided into four main sections—Analysis, Diagnostics, Settings, and Instrument—for simplified navigation and organization. Toolbars, sliders and drop-down menus make it easy to set parameters for calibration and data processing. The software also includes real-time monitoring of ambient monitors, with fully animated system diagrams. Advanced diagnostic features include a thorough digital on-board manual, maintenance animations, photo illustrations, and screen captures that quickly provide the direction needed without having to refer to multiple manuals. Cornerstone software also supports extended data archiving and flexible reporting capabilities.



## Instrument Highlights and Features



### Features and Benefits

- Fully-adjustable six-axis boom-mount improves ergonomics
- Tool-free autocleaner removal simplifies dust filter maintenance and reduces downtime
- Non-touch interface systems also available



### Improved IR Cell Design

- Thermostatic construction provides increased protection from ambient temperature fluctuations
- Long-life emitter drive and drift-free detection circuitry improve long-term stability
- Dual-range detection for both carbon and sulfur

### High Efficiency Furnace

- Solid-state RF furnace control extends oscillator tube life
- More efficient combustion of a wider variety of samples while reducing dust and splatter
- Automatic combustion tube removal/installation reduces downtime
- Heated dust filter improves sulfur recovery and low level precision

### Additional Features and Benefits

- High-velocity HEPA vacuum system keeps dust and debris contained
- Optional 10- and 60-sample autoloaders available for hours of worry-free operation
- Robotic process loader available for custom process integration



## Models

CS844 Carbon/Sulfur Determinator Specification Sheet 209-214-001

C844 Carbon Determinator Specification Sheet 209-214-002

S844 Sulfur Determinator Specification Sheet 209-214-003

## Options

Sample Autoloader

Printer

Interfaced Balance Kit

~~SmartLine~~ Remote Diagnostics

## LECO—Your source for total analytical solutions



### ONH Series: Oxygen/Nitrogen/Hydrogen by Fusion

- Oxygen, nitrogen, and hydrogen by inert gas fusion
- State-of-the-art infrared and thermal conductivity detectors with no moving parts and no manual adjustments
- Custom software interface designed specifically for touch-screen operation

### GDS500A and GDS850A Atomic Emission Spectrometers

- Spectral range from 120 to 800 nm
- Continuous profile of concentration/thickness
- Large, dynamic range with concentrations from ppm to 100% by weight
- Short analysis time (minutes)



### Inorganic Consumables

Get the best results from your LECO instrument by using genuine LECO consumables. Visit [www.leco.com](http://www.leco.com) for featured items, specials, and ordering information (Form number 203-959).