

# **844 Series**

*Carbon/Sulfur by Combustion*



**LECO**  
EMPOWERING RESULTS

# 844 Series: Carbon/Sulfur by Combustion

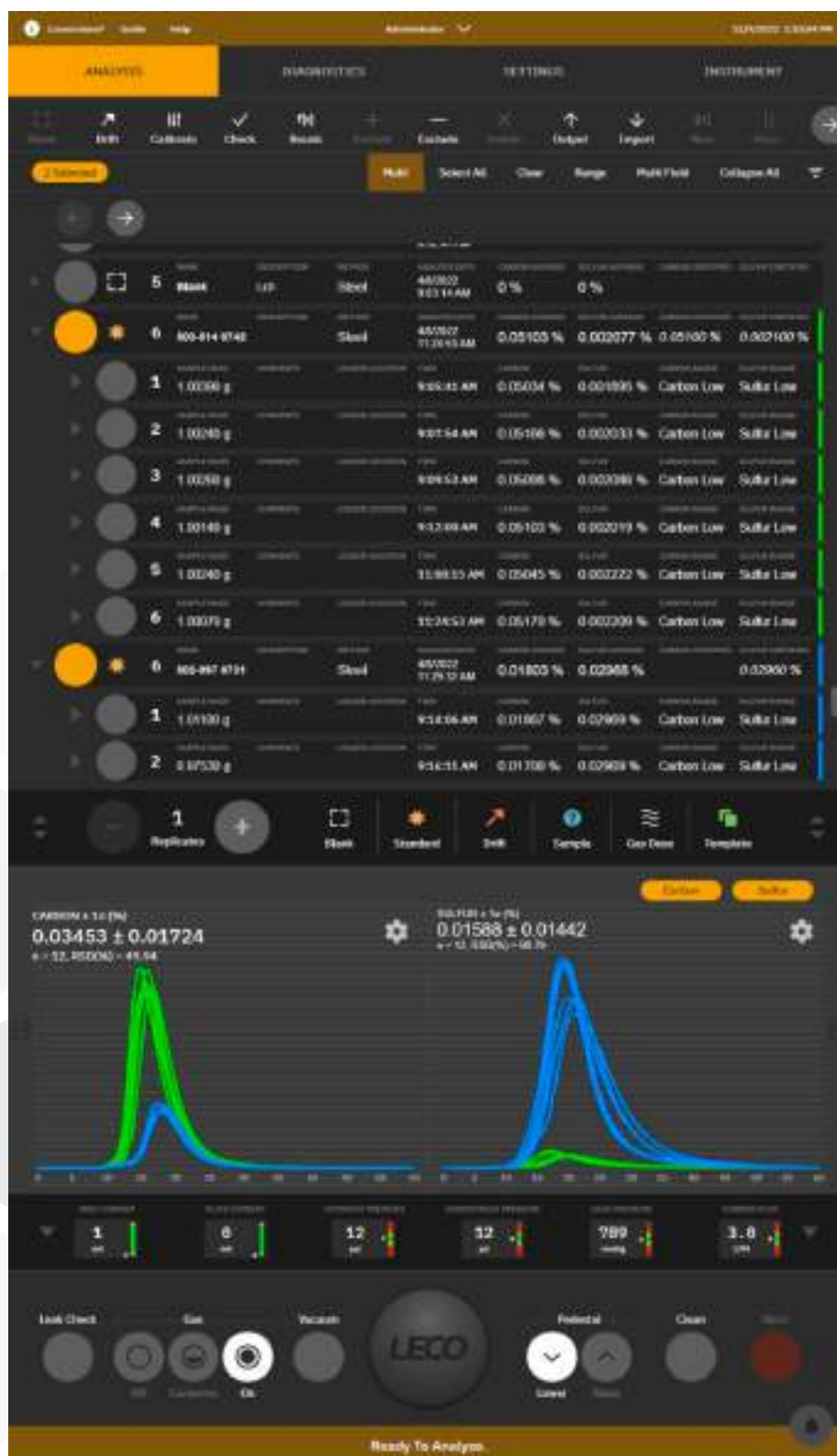
LECO's CS844 Series will redefine the way you determine carbon and sulfur in primary steels, ores, finished metals, and other inorganic materials. Using extensive customer feedback and innovative engineering, our latest instrumentation takes advantage of our Cornerstone® brand software platform, powered 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 Brand Software

LECO's exclusive Cornerstone brand 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 brand 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 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 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



***Shown with touch-screen monitor.***



***Shown with stand-alone touch-screen monitor.***



### ***Improved IR Cell Design***

- Thermostatic construction provides increased protection from ambient temperature fluctuations
- Optimized emitter control and detection circuitry improves the IR cell lifetime and long-term stability, resulting in superior accuracy and precision
- 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

C844 Carbon Determinator

S844 Sulfur Determinator

## Options

Sample Autoloader

Printer

Interfaced Balance Kit

~~SmartLine~~ Remote Diagnostics

NOTE: Multiple configurations of options are available. Please contact your local LECO Sales Engineer for more details.

## 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
- User-friendly Cornerstone brand software

### GDS900 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)



Our global network of sales/support includes over 25 subsidiaries worldwide, and is dedicated to customer service and satisfaction. The one thing all laboratories need to be successful is results they feel confident in. Since 1936, LECO has worked with our customers to find the right solution for the type of sample analysis they are performing, helping them to achieve data that is clear, consistent, and accurate. But our commitment to the customer doesn't end when our instruments are delivered.



**LECO Headquarters**



**Robert J Warren Customer Experience Center**



**Technical Research Center**



**Global Support Center**



LECO is dedicated to enhancing the user experience long after the sale by offering thorough training on our instruments and technology, accessibility to instrument service programs that keep your instruments in top working order, and access to friendly service and support to ensure you are getting the most out of your purchase—support that will empower your laboratory for success.

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